



```
DDDDDDDD  SSSSSSSS  RRRRRRRR  LL      IIIIII  BBBB8888
DDDDDDDD  SSSSSSSS  RRRRRRRR  LL      IIIIII  BBBB8888
DD      DD  SS      RR      RR  LL      II      BB      BB
DD      DD  SS      RR      RR  LL      II      BB      BB
DD      DD  SS      RR      RR  LL      II      BB      BB
DD      DD  SS      RR      RR  LL      II      BB      BB
DD      DD  SSSSSS  RRRRRRRR  LL      II      BBBB8888
DD      DD  SSSSSS  RRRRRRRR  LL      II      BBBB8888
DD      DD      SS  RR      RR  LL      II      BB      BB
DD      DD      SS  RR      RR  LL      II      BB      BB
DD      DD      SS  RR      RR  LL      II      BB      BB
DDDDDDDD  SSSSSSSS  RR      RR  LL      IIIIII  BBBB8888
DDDDDDDD  SSSSSSSS  RR      RR  LL      IIIIII  BBBB8888
                        LLLLLLLLLL
                        LLLLLLLLLL
```

```
LL      IIIIII  SSSSSSSS
LL      IIIIII  SSSSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SSSSSS
LL      II      SSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LLLLLLLLLL  IIIIII  SSSSSSSS
LLLLLLLLLL  IIIIII  SSSSSSSS
```

ME  
ME  
ME

E 14  
15-Sep-1984 23:07:40  
15-Sep-1984 22:50:43

VAX-11 Bliss-32 V4.0-742  
\_S255\$DUA28:[RUNOFF.SRC]DSRLIB.REQ;1 Page 1  
(1)

Version: 'V04-000'

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++  
FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS

DSRLIB.REQ requires in almost all Require files used by DSR and DSRPLUS.  
It is used to build both DSRLIB.L-- and DPLLIB.L--, which are used (via  
a conditionalized LIBRARY statement) by almost all modules in the DSR /  
DSRPLUS code.

The remaining REQUIRE statements in the code occur in RNFERM.BLI, which  
requires MSGTXT.REQ, and in LP1.BLI, which requires RUNTAB.REQ.

ENVIRONMENT: Transportable BLISS

AUTHOR: Keith Dawson CREATION DATE: March 1983

MODIFIED BY:

008	REM00008	Ray Marshall	4-June-1984
	Added a SWITCHES declaration to cause the expansion of the .REQ files.		
007	KAD00007	Keith Dawson	9-May-1983
	Remove support for .DX, .PX.		
006	KAD00006	Keith Dawson	13-Apr-1983
	Added conditionals on CREFDS, GTOKCC, KEYWORD.		
005	KAD00005	Keith Dawson	7-Apr-1983
	Added require files GTOKCC, KWTDEF (omitted by accident)		

0058 0  
0059 0  
0060 0  
0061 0  
0062 0  
0063 0  
0064 0  
0065 0  
0066 0  
0067 0  
0068 0  
0069 0

004 KAD00004 Keith Dawson 6-Apr-1983  
Added require files for cross-referencing (KEYWORD, CREFDS),  
final-output modifications (PASS).  
003 RER00003 Ron Randall 04-Apr-1983  
For DSRPLUS: Added topnote require files (TNREC, TOPNOT).  
002 KAD00002 Keith Dawson 17-Mar-1983  
Conditionalized 6 DSRPLUS-only Require files on the DSRPLUS  
variant.

G 14  
15-Sep-1984 23:07:40  
15-Sep-1984 22:50:43

VAX-11 Bliss-32 V4.0-742  
\_S255\$DUA28:[RUNOFF.SRC]DSRLIB.REQ;1 Page 3  
(2)

```
0070 0 LIBRARY 'NXPORT:XPORT';
0071 0
U 0072 0 %IF (%VARIANT/2) %THEN
0073 0 LIBRARY 'REQ:RNODEFDPL'; ! Define /VARIANT macros
0074 0 %ELSE
0075 0 LIBRARY 'REQ:RNODEFDSR'; ! Define /VARIANT macros
0076 0 %FI
0077 0
0078 0 SWITCHES LIST (REQUIRE); ! This declaration causes the remaining files
0079 0 ! to be expanded in the listing
0080 0
0081 0 ! The following files are used by some of the Require files to come.
0082 0
0083 0 REQUIRE 'REQ:MAXIMA.REQ'; ! Maximum values on some DSR / DSRPLUS parameters.
```

H 14  
15-Sep-1984 23:07:40  
15-Sep-1984 22:53:05

VAX-11 Bliss-32 V4.0-742  
\_S255SDUA28:[RUNOFF.SRC]MAXIMA.REQ;1 Page 4  
(1)

Version: 'V04-000'

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++  
FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS

ABSTRACT:  
Maximum values of DSR / DSRPLUS parameters, including the  
maximum allowed ranges on numbers.

ENVIRONMENT: Transportable BLISS

AUTHOR: Keith Dawson

CREATION DATE: March 1983

MODIFIED BY:

002 KAD00002 Keith Dawson 21-Mar-1983  
Move xp\_string\_size from KWXYP.REQ to MAXIMA.REQ.

--  
LITERAL

max_levels = 6,	!Maximum...
max_page_ranges = 5,	!header-level depth.
max_require = 10,	!number of /PAGE RANGE specifications.
max_save_depth = 20,	!depth of .REQUIRE commands.
max_tabs = 40,	!number of simultaneous .SAVE commands.
max_title = 450,	!number of tab stops.
max_vr_length = 15,	!internal length of titles and subtitles.
max_vr_names = 20;	!length of a variable name.
	!number of variables.

```

: R0141 0
: R0142 0
: R0143 0
: R0144 0
: MR0145 0
: MR0146 0
: R0147 0
: R0148 0
: MR0149 0
: MR0150 0
: R0151 0
: R0152 0
: MR0153 0
: MR0154 0
: R0155 0
: R0156 0
: MR0157 0
: MR0158 0
: R0159 0
: R0160 0
: R0161 0

LITERAL
  xp_string_size = 50;      !Maximum length of SORT= or APPEND= strings.

MACRO
  most_positive =          !Biggest positive number that can be represented.
    ABS (most_negative + 1)
  %,
  most_negative =          !Most negative number that can be represented.
    %BLISS16(%X'8000') %BLISS32(%X'80000000') %BLISS36(%X'400000000000')
  %,
  most_digits =            !Maximum number of digits in a number.
    %BLISS16(5) %BLISS32(10) %BLISS36(11)
  %,
  most_digits_9 =          !Maximum number of digits in a number of the form 99...
    (most_digits - 1)
  %;

!                               End of MAXIMA.REQ

```

J 14  
15-Sep-1984 23:07:40  
15-Sep-1984 22:50:43

VAX-11 Bliss-32 V4.0-742  
\_S255\$DUA28:[RUNOFF.SRC]DSRLIB.REQ;1

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(2)

: 0162 0 REQUIRE 'REQ:BPOSIT.REQ'; ! Macro to return the bit position part of a field definition.

K 14  
15-Sep-1984 23:07:40  
15-Sep-1984 22:49:44

VAX-11 Bliss-32 V4.0-742  
\_S255SDUA28:[RUNOFF.SRC]BPOSIT.REQ;1 Page 7  
(1)

Version: 'V04-000'

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++  
FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS

ABSTRACT:  
Defines a macro to return the bit position part of a field definition.  
It is intended to be used with the fields defined in LSTBTS, but is  
generally applicable.

ENVIRONMENT: Transportable BLISS

AUTHOR: Rich Friday

CREATION DATE: 1978

MODIFIED BY:

004 KAD00004 Keith Dawson 07-Mar-1983  
Global edit of all modules. Updated module names, idents,  
copyright dates. Changed require files to BLISS library.

--  
MACRO  
BPOSIT (S, C, X) = SX;

!  
End of BPOSIT.REQ

L 14  
15-Sep-1984 23:07:40  
15-Sep-1984 22:50:43

VAX-11 Bliss-32 V4.0-742  
\_S255\$DUA28:[RUNOFF.SRC]DSRLIB.REQ;1 Page 8  
(2)

: 0216 0 REQUIRE 'REQ:CLIST.REQ'; ! CL\_... (counted list) items

M 14  
15-Sep-1984 23:07:40  
15-Sep-1984 22:50:09

VAX-11 Bliss-32 V4.0-742  
\_S255\$DUA28:[RUNOFF.SRC]CLIST.REQ;1

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(1)

Version: 'V04-000'

```
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```

++  
FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS

ABSTRACT:  
Definitions for counted lists. A counted list carries with it  
its own description: current size, first and next character  
positions, and maximum size.

ENVIRONMENT: Transportable BLISS

AUTHOR: Rich Friday

CREATION DATE: 1978

MODIFIED BY:

003 KAD00003 Keith Dawson 07-Mar-1983  
Global edit of all modules. Updated module names, idents,  
copyright dates. Changed require files to BLISS library.

--  
LITERAL  
CL\_DEFAULT\_SIZE = 15;

STRUCTURE  
COUNTED\_LIST[I;N=CL\_DEFAULT\_SIZE] =  
[XUPVAL\*(N + 2)] ! First two elements for control information  
(COUNTED\_LIST + (1 + I)\*XUPVAL);

N 14  
15-Sep-1984 23:07:40  
15-Sep-1984 22:50:09

VAX-11 Bliss-32 V4.0-742  
\_S255\$DUA28:[RUNOFF.SRC]CLIST.REQ;1

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(1)

```

: R0274 0
: R0275 0
: R0276 0
: R0277 0
: R0278 0
: R0279 0
:
LITERAL CL_MAX_INDEX = -1, | Maximum allowable 'I' saved at start.
          CL_INDEX    = 0;  | Current 'I'
          !
          End of CLIST.REQ
```

B 15  
15-Sep-1984 23:07:40  
15-Sep-1984 22:50:43

VAX-11 Bliss-32 V4.0-742  
\_S255\$DUA28:[RUNOFF.SRC]DSRLIB.REQ;1 Page 11  
(2)

; 0280 0 REQUIRE 'REG:LSTBTS.REQ'; ! BAR\_\_, CND\_\_, ISQ\_\_, & RIT\_\_

Version: 'V04-000'

```
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```

++  
FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS

ABSTRACT:  
Defines BAR\_\_, CND\_\_, ISQ\_\_, OSQ\_\_, & RIT\_\_.

ENVIRONMENT: Transportable BLISS

AUTHOR: Rich Friday

CREATION DATE: 1978

MODIFIED BY:

005 REM00005 Ray Marshall 16-May-1984  
Added OSQ\_\_ to support outputting of the output line number.

004 KAD00004 Keith Dawson 07-Mar-1983  
Global edit of all modules. Updated module names, idents,  
copyright dates. Changed require files to BLISS library.

--  
MACRO  
BAR\_\_ = 0,1 ! TRUE if user said:  
CND\_\_ = 1,1 ! /DEBUG:CONDITIONALS  
ISQ\_\_ = 2,1 ! /SEQUENCE

D 15  
15-Sep-1984 23:07:40  
15-Sep-1984 22:52:58

VAX-11 Bliss-32 V4.0-742  
\_S255\$DUA28:[RUNOFF.SRC]LSTBTS.REQ;1 Page 13  
(1)

.. MR0338 0  
.. R0339 0  
.. MR0340 0  
.. R0341 0

RIT -X, = 3.1 ! /RIGHT  
OSQ -X; = 4.1 ! /DEC\_INTERNAL=OUTPUT\_LINE\_NUMBERS

: 0342 0 REQUIRE 'REQ:NBITS.REQ'; ! More "\_\_" bit definitions for a few flags

Version: 'V04-000'

```
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```

++  
FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS

ABSTRACT:  
Defines BLD\_\_, UND\_\_, BLDUND\_\_, OVR\_\_, IND\_\_, & HYP\_\_.

ENVIRONMENT: Transportable BLISS

AUTHOR: Rich Friday

CREATION DATE: 1978

MODIFIED BY:

004 KAD00004 Keith Dawson 07-Mar-1983  
Global edit of all modules. Updated module names, idsents,  
copyright dates. Changed require files to BLISS library.

--  
MACRO  
BLD\_? = 0,1 ! Bolding bit.  
UND\_? = 1,1 ! Underlining bit.  
BLDUND\_? = 0,2 ! Bolding and underlining together.  
OVR\_? = 2,1 ! Overstrike bit.  
IND\_? = 3,1 ! Indexing bit.

G 15  
15-Sep-1984 23:07:40  
15-Sep-1984 22:53:15

VAX-11 Bliss-32 V4.0-742  
\_S255\$DUA28:[RUNOFF.SRC]NBITS.REQ;1

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(1)

```
.. R0400 0
.. MR0401 0
.. R0402 0
.. R0403 0
    HYP  %
    -%;
    = 4.1 ! Hyphenation bit.
    !
    End of NBITS.REQ
```

M 15  
15-Sep-1984 23:07:40  
15-Sep-1984 22:50:43

VAX-11 Bliss-32 V4.0-742  
\_S255\$DUA28:[RUNOFF.SRC]DSRLIB.REQ;1

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(2)

: 0404 0 REQUIRE 'REQ:PAGEN.REQ'; ! SCT\_... and PAGE\_DEFINITION macros

1 15  
15-Sep-1984 23:07:40  
15-Sep-1984 22:53:51

VAX-11 Bliss-32 V4.0-742  
\_S255\$DUA28:[RUNOFF.SRC]PAGEN.REQ;1

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(1)

R0405 0  
R0406 0  
R0407 0  
R0408 0  
R0409 0  
R0410 0  
R0411 0  
R0412 0  
R0413 0  
R0414 0  
R0415 0  
R0416 0  
R0417 0  
R0418 0  
R0419 0  
R0420 0  
R0421 0  
R0422 0  
R0423 0  
R0424 0  
R0425 0  
R0426 0  
R0427 0  
R0428 0  
R0429 0  
R0430 0  
R0431 0  
R0432 0  
R0433 0  
R0434 0  
R0435 0  
R0436 0  
R0437 0  
R0438 0  
R0439 0  
R0440 0  
R0441 0  
R0442 0  
R0443 0  
R0444 0  
R0445 0  
R0446 0  
R0447 0  
R0448 0  
R0449 0  
R0450 0  
R0451 0  
R0452 0  
R0453 0  
R0454 0  
R0455 0  
R0456 0  
R0457 0  
R0458 0  
R0459 0  
R0460 0  
R0461 0

Version: 'V04-000'

```
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```

++  
FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS

ABSTRACT:  
A page number carries with it not only its current value, but also  
codes as to how those values are to be displayed when they are finally  
output. It was decided to do it this way rather than have a separate  
table so that the program TCX would have less trouble.

ENVIRONMENT: Transportable BLISS

AUTHOR: Rich Friday

CREATION DATE: 1978

MODIFIED BY:

004 KAD00004 Keith Dawson 07-Mar-1983  
Global edit of all modules. Updated module names, idents,  
copyright dates. Changed require files to BLISS library.

--

LITERAL  
page\_sct\_size = 4;

LITERAL  
sct\_chapt = 1;  
sct\_index = 2;  
sct\_append = 3;

!Type of section:  
! Chapter section.  
! Index section.  
! Appendix section.

R0462 0  
 R0463 0  
 R0464 0  
 R0465 0  
 R0466 0  
 R0467 0  
 R0468 0  
 R0469 0  
 R0470 0  
 R0471 0  
 R0472 0  
 R0473 0  
 R0474 0  
 R0475 0  
 R0476 0  
 R0477 0  
 R0478 0  
 R0479 0  
 R0480 0  
 R0481 0  
 R0482 0  
 R0483 0  
 R0484 0

```

LITERAL
    sct_low      = 1;           ! Lowest section type key.
    sct_high     = 3;           ! Highest section type key.

MACRO
    sct_typ      = 0, 0,      4,      0 %; ! Section Type (zero if none).
    sct_page_d   = 0, 4,      4,      0 %; ! Display code for page number.
    sct_sub_page = 0, %BPVAL/2, %BPVAL/2, 0 %; ! Subpage, if any (zero if none).
    sct_number   = 1, 0,      %BPVAL, 0 %; ! Type of section number.
    sct_page     = 2, 0,      %BPVAL, 0 %; ! Page number.
    sct_subpg_d  = 3, 0,      4,      0 %; ! Display code for subpages.
    sct_chapt_d  = 3, 4,      4,      0 %; ! Display code for chapters.
    sct_appen_d  = 3, 8,      4,      0 %; ! Display code for appendices.
    sct_index_d  = 3, 12,     4,      0 %; ! Display code if indexes.

MACRO
    sct_run_page = 3, %BPVAL/2, %BPVAL/2, 0 %; ! Running page number.

MACRO
    page_definition = BLOCK [page_sct_size] %;

!
    End of PAGEN.REQ
  
```

K 15  
15-Sep-1984 23:07:40  
15-Sep-1984 22:50:43

VAX-11 Bliss-32 V4.0-742  
\_S255SDUA28:[RUNOFF.SRC]DSRLIB.REQ;1 Page 20  
(2)

: 0485 0  
: 0486 0 REQUIRE 'REQ:ARECCC.REQ'; ! AREC completion codes.

L 15  
15-Sep-1984 23:07:40  
15-Sep-1984 22:49:24

VAX-11 BLISS-32 V4.0-742  
\_S255SDUA28:[RUNOFF.SRC]ARECCC.REQ;1

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Version: 'V04-000'

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++  
FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS

ABSTRACT:  
Completion codes returned by AREC.

ENVIRONMENT: Transportable BLISS

AUTHOR: Rich Friday

CREATION DATE: 1978

MODIFIED BY:

002 KAD00002 Keith Dawson 07-Mar-1983  
Global edit of all modules. Updated module names, idents,  
copyright dates. Changed require files to BLISS library.

!--  
LITERAL

END\_OF\_STRING = 1, ! The uneaten string has been exhausted.  
CF\_BREAK = 2, ! Special form of the .BREAK command.  
CF\_CF = 3, ! Two adjacent <CONTROL flag>s.  
CF\_COMMENT = 4, ! Special form of comment (.;).  
CF\_LETTER = 5, ! A <CONTROL flag> followed by a letter.

M 15  
15-Sep-1984 23:07:40  
15-Sep-1984 22:49:24

VAX-11 Bliss-32 V4.0-742  
\_S255SDUA28:[RUNOFF.SRC]ARECCC.REQ;1

Page 22  
(1)

...  
R0544 0  
R0545 0  
R0546 0  
R0547 0  
R0548 0  
R0549 0  
R0550 0  
R0551 0  
R0552 0  
R0553 0  
R0554 0  
R0555 0  
R0556 0  
R0557 0  
R0558 0  
...

END\_FOOTNOTE = 6, ! <ENDFOOTNOTE flag>.  
FIRST\_SPACE = 7, ! A space or tab.  
FIRST\_SEMI = 8, ! A semicolon (';').  
CF\_OTHER = 9, ! <CONTROL flag> followed by something else.  
NOT\_SPACE = 10; ! None of the other cases.  
LITERAL ARECCC\_COUNT = 10; ! Number of completion codes returned by AREC.  
!  
End of ARECCC.REQ

N 15  
15-Sep-1984 23:07:40  
15-Sep-1984 22:50:43

VAX-11 Bliss-32 V4.0-742 Page 23  
\_S255\$DUA28:[RUNOFF.SRC]DSRLIB.REQ;1 (2)

```
: 0559 0    REQUIRE 'REQ:ATCODE.REQ';          ! ATABLE entry codes.
```

R0560 0  
R0561 0  
R0562 0  
R0563 0  
R0564 0  
R0565 0  
R0566 0  
R0567 0  
R0568 0  
R0569 0  
R0570 0  
R0571 0  
R0572 0  
R0573 0  
R0574 0  
R0575 0  
R0576 0  
R0577 0  
R0578 0  
R0579 0  
R0580 0  
R0581 0  
R0582 0  
R0583 0  
R0584 0  
R0585 0  
R0586 0  
R0587 0  
R0588 0  
R0589 0  
R0590 0  
R0591 0  
R0592 0  
R0593 0  
R0594 0  
R0595 0  
R0596 0  
R0597 0  
R0598 0  
R0599 0  
R0600 0  
R0601 0  
R0602 0  
R0603 0  
R0604 0  
R0605 0  
R0606 0  
R0607 0  
R0608 0  
R0609 0  
R0610 0  
R0611 0  
R0612 0  
R0613 0  
R0614 0  
R0615 0  
R0616 0

Version: 'V04-000'

\*\*\*\*\*  
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++  
FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS  
ABSTRACT:  
Names for the actions associated with characters in the action table.  
ENVIRONMENT: Transportable BLISS  
AUTHOR: Rich Friday  
CREATION DATE: 1978  
MODIFIED BY:  
004 REM00004 Ray Marshall 17-November-1983  
Added macro for defining the size and type of ATABLE. Also  
defined ATABLE\_LENGTH for use where it's length is involved  
in other calculations.  
003 REM00003 Ray Marshall 7-November-1983  
Added A\_U ALPHA & A\_L ALPHA as part of the added support for  
DEC multinational character set.  
002 KAD00002 Keith Dawson 07-Mar-1983  
Global edit of all modules. Updated module names, idents,  
copyright dates. Changed require files to BLISS library.

--X()X

LITERAL

! TRUE if the character is...

```

: R0617 0
: R0618 00
: R0619 00
: R0620 00
: R0621 00
: R0622 00
: R0623 00
: R0624 00
: R0625 00
: R0626 00
: R0627 00
: R0628 00
: R0629 00
: R0630 00
: R0631 00
: R0632 00
: R0633 00
: R0634 00
: R0635 00
: R0636 0
: MR0637 0
: R0638 0

A_SPACE      = 01.  a space,
A_TAB        = 02.  a tab,
A_FLAG       = 03.  a flag,
A_CONTROL    = 04.  an ASCII control character,
A_U_LETTER   = 05.  an upper-case letter,
A_L_LETTER   = 06.  a lower-case letter,
A_DIGIT      = 07.  a digit,
A_INT_ESC    = 08.  a RUNOFF internal escape character (RINTES),
A_PUNCT      = 09.  a punctuation mark;
A_OTHER      = 10.  ...or anything else not covered above.
A_U_ALPHA    = 11.  Uppercase multinational character
A_L_ALPHA    = 12.  Lowercase multinational character

LITERAL ACTION_COUNT = 12;  ! Number of actions

LITERAL atable_length = 256;  ! Number of cells in ATABLE

MACRO atable_definition =
      VECTOR [atable_length, BYTE]%;

```

0 16  
15-Sep-1984 23:07:40  
15-Sep-1984 22:50:43

VAX-11 Bliss-32 V4.0-742  
\_S255\$DUA28:[RUNOFF.SRC]DSRLIB.REQ;1

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(2)

```
0639 0
U 0640 0
U 0641 0
0642 0
0643 0
0644 0
XIF DSRPLUS XTHEN
REQUIRE 'REQ:ATTCC.REQ';      ! Completion codes for routines in ATTRIB
XFI
REQUIRE 'REQ:BOOL.REQ';      ! TRUE & FALSE literals (only)
```

Version: 'V04-000'

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FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS

ABSTRACT:  
Definitions of Boolean items TRUE and FALSE.

ENVIRONMENT: Transportable BLISS

AUTHOR: Rich Friday

CREATION DATE: 1978

MODIFIED BY:

002 KAD00002 Keith Dawson 07-Mar-1983  
Global edit of all modules. Updated module names, idents,  
copyright dates. Changed require files to BLISS library.

LITERAL  
TRUE = 1;  
FALSE = 0;

End of BOOL.REQ

; 0697 0 REQUIRE 'REQ:BRNRTY.REQ'; ! .BRN-format binary file record def's.

Version: 'V04-C00'

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FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS

ABSTRACT:  
Binary RuNoff file record type definitions

ENVIRONMENT: Transportable BLISS

AUTHOR: J.P. Kellerman

CREATION DATE: January 1982

MODIFIED BY:

003 KAD00003 Keith Dawson 07-Mar-1983  
Global edit of all modules. Updated module names, idents,  
copyright dates. Changed require files to BLISS library.

File Identification Record Group

LITERAL

BRN_FILE = -1,	! Identifies file as .BRN format
BRN_IDENT = 2,	! .BRN format revision level
INDEX_FORMAT = 2,	! Index record group format revision level
TOC_FORMAT = 3,	! Table of contents record group format revision level
CROSSREF_FORMAT = 1;	! Cross reference record group format revision level

H 16  
15-Sep-1984 23:07:40  
15-Sep-1984 22:49:50

VAX-11 Bliss-32 V4.0-742  
\_S255\$DUA28:[RUNOFF.SRC]BRNRTY.REQ;1  
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(1)

```

R0755 0
R0756 0
R0757 0
R0758 0
R0759 0
R0760 0
R0761 0
R0762 0
R0763 0
R0764 0
R0765 0
R0766 0
R0767 0
R0768 0
R0769 0
R0770 0
R0771 0
R0772 0
R0773 0
R0774 0
R0775 0
R0776 0

!
Record Group Header
!
! A record group header identifies the following record group.
! This allows a utility program to skip record groups pertaining
! to other programs without having to know their structure.
!
LITERAL
  BRN_INDEX = 1,      ! Identifies index record groups
  BRN_CONTENTS = 2,   ! Identifies table of contents record groups
  BRN_CROSSREF = 3;   ! Identifies cross reference record groups
!
! Cross Reference Record groups
!
LITERAL
  NEW_CROSSREF = 1,   ! Identification record group
  CROSSREF_REFERENCEPOINT = 2; ! Reference point record group
!
! End of BRNRTY.REQ
```

I 16  
15-Sep-1984 23:07:40  
15-Sep-1984 22:50:43

VAX-11 Bliss-32 V4.0-742  
\_S255\$DUA28:[RUNOFF.SRC]DSRLIB.REQ;1 Page 31  
(2)

: 0777 0 REQUIRE 'REQ:CLHCC.REQ'; ! CLH\_... status return codes

J 16  
15-Sep-1984 23:07:40  
15-Sep-1984 22:49:55

VAX-11 Bliss-32 V4.0-742  
\_S255SDUA28:[RUNOFF.SRC]CLHCC.REQ;1

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Version: 'V04-000'

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FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS

ABSTRACT:  
Condition codes returned by CLH.

ENVIRONMENT: Transportable BLISS

AUTHOR: Rich Friday

CREATION DATE: 1978

MODIFIED BY:

002 KAD00002 Keith Dawson 07-Mar-1983  
Global edit of all modules. Updated module names, idents,  
copyright dates. Changed require files to BLISS library.

LITERAL

CLH\_NORMAL = 01, ! Normal for all requests.  
CLH\_CANT\_OPEN = 02, ! For bad CLH\_OPEN\_INPUT/OUTPUT.  
CLH\_END\_FILE = 02, ! End of file for CLH\_READ\_INPUT.  
CLH\_CANT\_READ = 03, ! Bad CLH\_READ\_INPUT.  
CLH\_TOO\_LONG = 04, ! Record too long on CLH\_READ\_INPUT.

K 16  
15-Sep-1984 23:07:40  
15-Sep-1984 22:49:55

VAX-11 Bliss-32 V4.0-742  
\_S255SDUA28:[RUNOFF.SRC]CLHCC.REQ;1

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(1)

..R0835 0  
..R0836 0  
..R0837 0  
..R0838 0  
..R0839 0  
..R0840 0  
..R0841 0

CLH\_NO\_SPACE = 05; ! No memory available.  
LITERAL CLH\_CC\_COUNT = 05; ! Number of condition codes defined.  
!  
End of CLHCC.REQ

L 16  
15-Sep-1984 23:07:40  
15-Sep-1984 22:50:43

VAX-11 Bliss-32 V4.0-742  
\_S255SDUA28:[RUNOFF.SRC]DSRLIB.REQ;1

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(2)

: 0842 0 REQUIRE 'REQ:CLHOPS.REQ'; ! CLH\_... operation codes

M 16  
15-Sep-1984 23:07:40  
15-Sep-1984 22:50:02

VAX-11 Bliss-32 V4.0-742  
\_S255SDUA28:[RUNOFF.SRC]CLHOPS.REQ;1

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Version: 'V04-000'

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++  
FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS

ABSTRACT:  
Definition of operations that can be performed by CLH.

ENVIRONMENT: Transportable BLISS

AUTHOR: Rich Friday

CREATION DATE: 1978

MODIFIED BY:

006 KAD00006 Keith Dawson 07-Mar-1983  
Global edit of all modules. Updated module names, idents,  
copyright dates. Changed require files to BLISS library.

--  
LITERAL

CLH_OPEN_INPUT	= 1.	! Open primary input file.
CLH_OPEN_OUT	= 2.	! Open output file.
CLH_CLOSE_INPUT	= 3.	! Close current input file.
CLH_CLOSE_OUT	= 4.	! Close output file.
CLH_READ_INPUT	= 5.	! Read a record from current input file.
CLH_WRITE_OUT	= 6.	! Write a record to output file, add CRLF.
CLH_PUSH	= 7.	! Save current input-file status on stack.
CLH_POP	= 8.	! Get back previous input-file status.
CLH_OPEN_REQ	= 9.	! Open a nested file (.REQUIRE "file-spec").

15-Sep-1984 23:07:40  
15-Sep-1984 22:50:02

VAX-11 Bliss-32 V4.0-742  
\_S255SDUA28:[RUNOFF.SRC]CLHOPS.REQ;1

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(1)

```

: R0900 0      CLH_CLOSE_REQ      = 10;  ! Close the top-most .REQUIRE file.
: R0901 0      CLH_OUT_NOCRLF     = 11;  ! Write a record, but don't add CRLF.
: R0902 0      CLH_CLOSE_DEL_OUT  = 12;  ! Close and delete output file.
: R0903 0      CLH_OPEN_INIT      = 13;  ! Open initialization file.
: R0904 0
: R0905 0      LITERAL
: R0906 0      CLH_OPS_COUNT      = 13;
: R0907 0
: R0908 0      !
                        End of CLHOPS.REQ

```

C 1  
15-Sep-1984 23:07:40  
15-Sep-1984 22:50:43

VAX-11 Bliss-32 V4.0-742  
\_S255\$DUA28:[RUNOFF.SRC]DSRLIB.REQ;1

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(2)

; 0909 0 REQUIRE 'REQ:CONVRT.REQ'; ! TCONVRT\_... def's (string conversion codes)

0 1  
15-Sep-1984 23:07:40  
15-Sep-1984 22: :30

VAX-11 BLISS-32 V4.0-742  
\_S255\$DUA28:[RUNOFF.SRC]CONVRT.REQ;1

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(1)

Version: 'V04-000'

```
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*****
```

++  
FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS

ABSTRACT:

Literals defining names for how to do conversions from binary to the appropriate string type.

It's not possible to have a display code larger than 15 without changing the data structures defined in PAGEN.REQ.

OTHER NOTES:

If the definitions of the literals defined here change (except for additions), look at DSPPAG to be sure nothing has been broken.

ENVIRONMENT: Transportable BLISS

AUTHOR: Rich Friday

CREATION DATE: 1978

MODIFIED BY:

002 KAD00002 Keith Dawson 07-Mar-1983  
Global edit of all modules. Updated module names, idents,  
copyright dates. Changed require files to BLISS library.

--  
LITERAL

TCONVRT\_DEC\_NOZ = 0,

!Convert to decimal, no leading zeros.

```
... R0967 0 TCONVRT_DEC_ZER = 1.  
... R0968 00 TCONVRT_LET_UPP = 2.  
... R0969 00 TCONVRT_LET_LOW = 3.  
... R0970 00 TCONVRT_LET_MIX = 4.  
... R0971 00 TCONVRT_ROM_UPP = 5.  
... R0972 00 TCONVRT_ROM_LOW = 6.  
... R0973 00 TCONVRT_ROM_MIX = 7.  
... R0974 00 TCONVRT_OCT_NOZ = 8.  
... R0975 00 TCONVRT_HEX_NOZ = 9.  
... R0976 00  
... R0977 00 LITERAL  
... R0978 00 TCONVRT_LOW = 0.  
... R0979 00 TCONVRT_HIGH = 9.  
... R0980 00  
... R0981 0 !  
End of CONVRT.REQ
```

```
! Convert to decimal, leading zeros.  
! Convert to letters, all upper-case.  
! Convert to letters, all lower-case.  
! Convert to letters, capitalize first one.  
! Convert to roman numerals, all upper-case.  
! Convert to roman numerals, all lower-case.  
! Convert to roman numerals, capitalize first letter.  
! Convert to octal, no leading zeros.  
! Convert to hex, no leading zeros.  
  
! Lowest total conversion code.  
! Highest total conversion code.
```

F-1  
15-Sep-1984 23:07:40  
15-Sep-1984 22:50:43

VAX-11 Bliss-32 V4.0-742  
\_S255\$DUA28:[RUNOFF.SRC]DSRLIB.REQ;1 Page 40  
(2)

```
0982 0
U 0983 00
U 0984 00
0985 00
0986 00
0987 0
XIF DSRPLUS XTHEN
  REQUIRE 'REQ:CREFDS.REQ';      ! Cross-referencing data structures
XFI
  REQUIRE 'REQ:DIGIT.REQ';      ! Macro to test if a character is a digit
```

6 1  
15-Sep-1984 23:07:40  
15-Sep-1984 22:50:36

VAX-11 Bliss-32 V4.0-742  
\_S255SDUA28:[RUNOFF.SRC]DIGIT.REQ;1

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(1)

Version: 'V04-000'

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++  
FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS

ABSTRACT:  
Macro to test if a character is a digit.

ENVIRONMENT: Transportable BLISS

AUTHOR: Rich Friday

CREATION DATE: 1978

MODIFIED BY:

002 KAD00002 Keith Dawson 07-Mar-1983  
Global edit of all modules. Updated module names, idents,  
copyright dates. Changed require files to BLISS library.

--  
MACRO  
DIGIT(KHAR) =  
(KHAR GEQ %C'0' and KHAR LEQ %C'9')  
%;

End of DIGIT.REQ

```
: 1041 0  !! REQUIRE 'REQ:DMDEFS.REQ';  ! Dynamic-memory management definitions
: 1042 0  REQUIRE 'REQ:ECC.REQ';      ! Definitions for the Entity Counter/Caption Area
```

1  
15-Sep-1984 23:07:40  
15-Sep-1984 22:50:59

VAX-11 BLISS-32 V4.0-742  
\_S255\$DUA28:[RUNOFF.SRC]ECC.REQ;1

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Version: 'V04-000'

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++  
FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS  
ABSTRACT:  
Definitions for the ECC (Entity Counter/Caption area).

ENVIRONMENT: Transportable BLISS

AUTHOR: Keith Dawson

CREATION DATE: 1982

MODIFIED BY:

004 KFA00004 Ken Alden 07-Jul-1983  
Made the counter into a full integer.

003 KAD00003 Keith Dawson 07-Mar-1983  
Global edit of all modules. Updated module names, idsents,  
copyright dates. Changed require files to BLISS library.

!--  
\$FIELD ECC\_FIELDS =

SET  
ECC\$V\_OPTIONS = [\$SHORT\_INTEGER],

\$OVERLAY (ECC\$V\_OPTIONS)

ECC\$V\_BOLD = [\$BIT],

!Make entity caption bold.

R1100  
 R1101  
 R1102  
 R1103  
 R1104  
 R1105  
 R1106  
 R1107  
 R1108  
 R1109  
 R1110  
 R1111  
 R1112  
 R1113  
 R1114  
 R1115  
 R1116  
 R1117  
 R1118  
 R1119  
 R1120  
 R1121  
 R1122  
 R1123  
 R1124  
 R1125  
 R1126  
 R1127  
 R1128  
 R1129  
 R1130  
 R1131  
 R1132  
 R1133  
 R1134  
 R1135  
 R1136  
 R1137  
 R1138  
 R1139  
 R1140  
 R1141  
 R1142  
 R1143  
 R1144  
 R1145  
 R1146  
 R1147  
 R1148  
 R1149  
 R1150  
 R1151  
 R1152  
 R1153  
 R1154  
 R1155  
 R1156

```

ECCSV_UNDERLINE = [SBIT],
ECCSV_UNNUMBERED = [SBIT],
ECCSV_BREAK = [SBIT],
ECCSV_TOCPAGE = [SBIT],
ECCSV_PAGE = [SBIT],
ECCSV_STARTODD = [SBIT],

$CONTINUE

ECCSH_RUNIN = [STINY_INTEGER],
ECCSH_CASE = [STINY_INTEGER],
ECCSH_POSITION = [STINY_INTEGER],
ECCSH_AFTER = [SSHORT_INTEGER],
ECCSH_BEFORE = [SSHORT_INTEGER],
ECCSH_BETWEEN = [SSHORT_INTEGER],
ECCSH_SPACES = [SSHORT_INTEGER],
ECCSH_TESTPAGE = [SSHORT_INTEGER],
ECCSH_COUNTER = [SINTEGER],
ECCSH_DISPLAY_DESC = [SSHORT_INTEGER],
ECCSH_PRE_LEN = [SSHORT_INTEGER],
ECCSH_PRE_PTR = [SPOINTER],
ECCSH_POST_LEN = [SSHORT_INTEGER],
ECCSH_POST_PTR = [SPOINTER]

TES;

LITERAL
ECCSK_LENGTH = $FIELD_SET_SIZE;

! Values for ECCSH_CASE:
LITERAL
ECCSK_LEAVECASE = 0,
ECCSK_FIRSTCAP = 1,
ECCSK_ALLCAP = 2;

! Values for ECCSH_POSITION:
LITERAL
ECCSK_LEFT = 0,
ECCSK_RIGHT = 1,
ECCSK_CENTER = 2,
ECCSK_ALTERNATE = 3;

! Offsets of counters for example, figure, and table in the ECC structure
! (Entity Counter / Caption area).
LITERAL
EXAMP_OFFSET = 0,
FIGUR_OFFSET = 1,
TABLE_OFFSET = 2,
HCOLL_OFFSET = 3,
HL1_OFFSET = 4,
HL2_OFFSET = 5,
HL3_OFFSET = 6,

```

```

! Underline entity caption.
! Do not display counter for this entity.
! Start a new line after entity/CHAPTER/APPENDIX.
! Put a page number in the TOC.
! Start a new page before CHAPTER or APPENDIX.
! Start this chapter/appendix on an odd-numbered page.

! Run in caption with text.
! Case rules for caption (see values below).
! Placement of header (see values below).
! This many blank lines after header.
! Skip this many lines before header.
! Skip this many lines between 'CHAPTER' and the title.
! Number of spaces between counter and caption.
! Generate test-page for this many lines.
! Counter for this entity.
! RUNOFF display descriptor.
! Before-counter text length.
! Before-counter text pointer.
! After-counter text length.
! After-counter text pointer.

! Make entity caption initial-cap.
! Make caption all-caps.

! Make the entity caption flush-left.
! Make the entity caption flush-right.
! Center entity caption.
! (nyi) Alternate flush-left, flush-right.

! Examples
! Figures
! Tables
! Collecting headers
! HL 1
! HL 2
! HL 3

```

K 1  
15-Sep-1984 23:07:40  
15-Sep-1984 22:50:59

VAX-11 Bliss-32 V4.0-742  
\_S255SDUA28:[RUNOFF.SRC]ECC.REQ;1

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R1157 0  
R1158 0  
R1159 0  
R1160 0  
R1161 0  
R1162 0  
R1163 0  
R1164 0  
R1165 0  
R1166 0  
R1167 0  
R1168 0  
R1169 0  
R1170 0  
R1171 0  
R1172 0  
R1173 0  
R1174 0  
MR1175 0  
R1176 0  
R1177 0  
R1178 0  
MR1179 0  
R1180 0  
R1181 0  
R1182 0

HL4\_OFFSET = 7;  
HL5\_OFFSET = 8;  
HL6\_OFFSET = 9;  
CHAP\_OFFSET = 10;  
APPEND\_OFFSET = 11;  
HL 4  
HL 5  
HL 6  
Chapters  
Appendix

LITERAL  
MAX\_ECC\_OFFSET = 11;

LITERAL  
3 SECC BLOCKs for example, figure, table;  
1 for the Header-collecting block;  
6 for the header levels.  
1 for Chapters.  
1 for Appendix.  
MAX\_ECC = 3 + 1 + 6 + 1 + 1;

MACRO  
SECC\_BLOCK =  
BLOCK [ECC\$K\_LENGTH] FIELD (ECC\_FIELDS) %;

MACRO  
SECC\_BLOCKVECTOR =  
BLOCKVECTOR [MAX\_ECC, ECC\$K\_LENGTH] FIELD (ECC\_FIELDS) %;

!  
End of ECC.REQ

1  
15-Sep-1984 23:07:40  
15-Sep-1984 22:50:43

VAX-11 B11ss-32 V4.0-742  
\_S255SDUA28:[RUNOFF.SRC]DSRLIB.REQ;1

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(2)

; 1183 0 REQUIRE 'REQ:FFDEFS.REQ'; ! F00\_... opcodes and status values for F00FIL

15-Sep-1984 23:07:40  
15-Sep-1984 22:51:04

VAX-11 BLISS-32 V4.0-742  
\_S255\$DUA28:[RUNOFF.SRC]FFDEFS.REQ;1

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Version: 'V04-000'

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FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS

ABSTRACT:  
Literals defining FOOFIL operations and return values.

ENVIRONMENT: Transportable BLISS

AUTHOR: Rich Friday

CREATION DATE: 1982

MODIFIED BY:

005 KAD00005 Keith Dawson 07-Mar-1983  
Global edit of all modules. Updated module names, ids, copyright dates. Changed require files to BLISS library.

LITERAL

FOO_INIT = 0.	!Initialize FOOIOB.
FOO_OPIN = 1.	!Open footnote file for input.
FOO_OPOU = 2.	!Open footnote file for output.
FOO_READ = 3.	!Read a record from footnote file.
FOO_WRIT = 4.	!Write a record to the footnote file.
FOO_CLOS = 5.	!Close the footnote file.
FOO_DELE = 6.	!Delete the footnote file.
FOO_CLEAN = 7.	!Discard footnotes that have been output.
FOO_RHDR = 8.	!Read a record header.

N 1  
15-Sep-1984 23:07:40  
15-Sep-1984 22:51:04

VAX-11 Bliss-32 V4.0-742  
\_S255SDUA28:[RUNOFF.SRC]FFDEFS.REQ;1 Page 48  
(1)

```

R1241 0
R1242 0
R1243 0
R1244 0
R1245 0
R1246 0
R1247 0
R1248 0
R1249 0
R1250 0
R1251 0
R1252 0

      FOO_PREAD= 9;      !Read a 'pass-through' record.
      FOO_PWRIT= 10;     !Write a 'pass-through' record.

LITERAL      FFOO_OP = 10;      !Highest operation code.

LITERAL      FOO_NORMAL = 1;    !Operation done ok.
              FOO_ENDFIL = 2;   !End of file on write.
              FOO_BAD   = 3;    !Couldn't perform operation.

!
      End of FFDEFS.REQ
```

0 2  
15-Sep-1984 23:07:40  
15-Sep-1984 22:50:43

VAX-11 Bliss-32 V4.0-742  
\_S255SDUA28:[RUNOFF.SRC]DSRLIB.REQ;1 Page 49  
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; 1253 0 REQUIRE 'REQ:FLGT.REQ'; ! FLAG Table items

C 2  
15-Sep-1984 23:07:40  
15-Sep-1984 22:51:14

VAX-11 BLISS-32 V4.0-742  
\_S255SDUA28:[RUNOFF.SRC]FLGT.REQ;1

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Version: 'V04-000'

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++  
FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS

ABSTRACT:  
Flag table: values and status of flag characters.

ENVIRONMENT: Transportable BLISS

AUTHOR: Rich Friday

CREATION DATE: 1978

MODIFIED BY:

005 KFA00005 Ken Alden 21-Mar-1983  
For DSRPLUS: eliminated the passthrough flag.

004 KFA00004 Ken Alden 15-Mar-1983  
For DSRPLUS: added bits for passthrough flag.

003 KAD00003 Keith Dawson 07-Mar-1983  
Global edit of all modules. Updated module names, idsents,  
copyright dates. Changed require files to BLISS library.

In the following definitions, 3-character abbreviations are used for the names of the flags:

abbrev- viation	flag	abbrev- viation	flag
COM	Comment	BLD	Bold
SUB	Substitute	SPA	Space
EFO	Endfootnote	IND	Index
CON	Control	HYP	Hyphenate
QUO	Accept (ne Quote)	OVR	Overstrike
UPP	Uppercase	SBX	Subindex
LOW	Lowercase	PER	Period
CAP	Capitalize	BRK	Break
UND	Underline	NPX	No-permute-index

LITERAL  
FLAG\_COUNT = 18; ! Number of flags.

LITERAL  
SUB\_FLAG = 0.  
EFO\_FLAG = 1.  
CON\_FLAG = 2.  
QUO\_FLAG = 3.  
UPP\_FLAG = 4.  
LOW\_FLAG = 5.  
CAP\_FLAG = 6.  
UND\_FLAG = 7.  
BLD\_FLAG = 8.  
SPA\_FLAG = 9.  
IND\_FLAG = 10.  
HYP\_FLAG = 11.  
OVR\_FLAG = 12.  
SBX\_FLAG = 13.  
COM\_FLAG = 14.  
PER\_FLAG = 15.  
BRK\_FLAG = 16.  
NPX\_FLAG = 17;

LITERAL  
FLAG\_ENABLED = 0.  
FLAG\_CHARACTER = 1;

! The FLAG TABLE structure does not need to use %UPVAL to be on -11s and VAX,  
! because the information there can be saved in single bytes.

STRUCTURE  
FLAG\_TABLE[I,J;N=FLAG\_COUNT] =  
[2 \* N \* %UPVAL]  
(If J eql FLAG\_ENABLED  
then FLAG\_TABLE[E + (I \* %UPVAL)  
else FLAG\_TABLE + (FLAG\_COUNT + 1)\*%UPVAL );

MACRO  
FLGT\_DEFINITION =  
FLAG\_TABLE[FLAG\_COUNT]%;

R1306 0  
R1307 0  
R1308 0  
R1309 0  
R1310 0  
R1311 0  
R1312 0  
R1313 0  
R1314 0  
R1315 0  
R1316 0  
R1317 0  
R1318 0  
R1319 0  
R1320 0  
R1321 0  
R1322 0  
R1323 0  
R1324 0  
R1325 0  
R1326 0  
R1327 0  
R1328 0  
R1329 0  
R1330 0  
R1331 0  
R1332 0  
R1333 0  
R1334 0  
R1335 0  
R1336 0  
R1337 0  
R1338 0  
R1339 0  
R1340 0  
R1341 0  
R1342 0  
R1343 0  
R1344 0  
R1345 0  
R1346 0  
R1347 0  
R1348 0  
R1349 0  
R1350 0  
R1351 0  
R1352 0  
R1353 0  
R1354 0  
R1355 1  
R1356 2  
R1357 0  
R1358 0  
R1359 0  
MR1360 0  
R1361 0  
R1362 0

E 2  
15-Sep-1984 23:07:40  
15-Sep-1984 22:51:14

VAX-11 B11ss-32 V4.0-742  
\_S255SDUA28:[RUNOFF.SRC]FLGT.REQ;1

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; R1363 0 !

End of FLGT.REQ

F 2  
15-Sep-1984 23:07:40  
15-Sep-1984 22:50:43

VAX-11 BLISS-32 V4.0-742  
\_S255SDUA28:[RUNOFF.SRC]DSRLIB.REQ;1 Page 53  
(2)

; 1364 0 REQUIRE 'REQ:FLIPCHARS.REQ'; ! FLIP\$K\_... special characters

Version: 'V04-000'

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FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS

ABSTRACT:  
This file contains the definitions of the FLIP special text characters.

ENVIRONMENT: Transportable BLISS

AUTHOR: George Hetrick

CREATION DATE: 19-Feb-1982

MODIFIED BY:

002 KAD00002 Keith Dawson 07-Mar-1983  
Global edit of all modules. Updated module names, idents,  
copyright dates. Changed require files to BLISS library.

FLIP special characters, inserted into output file

\$LITERAL

FLIP\$K\_START\_BOLD = \$DISTINCT,  
FLIP\$K\_START\_UNDERLINE = \$DISTINCT,  
FLIP\$K\_END\_BOLD = \$DISTINCT,  
FLIP\$K\_END\_UNDERLINE = \$DISTINCT;

H 2  
15-Sep-1984 23:07:40  
15-Sep-1984 22:51:21

VAX-11 Bliss-32 V4.0-742  
[RUNOFF.SRC]FLIPCHARS.REQ;1

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(1)

; R1422 0 !

End of FLIPCHARS.REQ

: 1423 0 REQUIRE 'REQ:FLIPRECS.REQ'; ! FLIP macro, record, & field definitions and MAX\_LEVELS.

\*TITLE 'FLIPRECS -- FLIP/RUNOFF record formats'

Version: 'V04-000'

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\*\*  
FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS

## ABSTRACT:

This file documents the records emitted by RUNOFF for processing by FLIP.

## ENVIRONMENT:

DSRPLUS

AUTHOR: George C. Hetrick

CREATION DATE: 1981

## MODIFIED BY:

003 KAD00003 Keith Dawson 17-May-1983  
Made all - CODEs [STINY INTEGER]'s again. The reason for  
having changed to [SINTEGER]'s in the first place has gone  
away: FLIP code is now more tightly conditionalized (for  
the benefit of TOPS-20 mainly).

002 KAD00002 Keith Dawson 07-Mar-1983  
Global edit of all modules. Updated module names, idsents,  
copyright dates. Changed require files to BLISS library.

\*sbttl 'FLIP/RUNOFF record types';

FLIPRECS -- FLIP/RUNOFF record formats  
FLIP/RUNOFF record types

K 2  
15-Sep-1984 23:07:40  
15-Sep-1984 22:51:29

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\_S255SDUA28:[RUNOFF.SRC]FLIPRECS.REQ,1 (1)

R1481 0  
R1482 0  
R1483 0  
R1484 0  
R1485 0  
R1486 0  
R1487 0  
R1488 0  
R1489 0  
R1490 0  
R1491 0  
R1492 0  
R1493 0  
R1494 0  
R1495 0

SLITERAL  
FLIPSK\_INIT = \$DISTINCT,  
FLIPSK\_RNOTXT = \$DISTINCT,  
FLIPSK\_TCXTXT = \$DISTINCT,  
FLIPSK\_TCXTN = \$DISTINCT,  
FLIPSK\_TCXINI = \$DISTINCT,  
FLIPSK\_TCRD = \$DISTINCT,  
FLIPSK\_TOCTXT = \$DISTINCT,  
FLIPSK\_TOCPAG = \$DISTINCT,  
FLIPSK\_TOCHLI = \$DISTINCT,  
FLIPSK\_TOCHL = \$DISTINCT,  
FLIPSK\_NEWPAG = \$DISTINCT;

LITERAL  
FLIPSK\_VERSION = 1;

FLIPRECS -- FLIP/RUNOFF record formats  
INIT -- initial FLIP record

15-Sep-1984 23:07:40  
15-Sep-1984 22:51:29

VAX-11 B11ss-32 V4.0-742 Page 59  
\_S255\$DUA28:[RUNOFF.SRC]FLIPRECS.REQ;1 (2)

%sbttl 'INIT -- initial FLIP record';

\$FIELD

\$FLIP\$INIT\_FIELDS = SET  
INIT\_CODE = [\$TINY\_INTEGER], ! record type  
INIT\_FLAGS = [\$BYTE], ! various flags  
OVERLAY(INIT\_FLAGS)  
INIT\_CONTENTS = [\$BIT], ! was /CONTENTS specified  
\$CONTINUE  
INIT\_LEVEL = [\$SHORT\_INTEGER] ! FLIP version

TES;

! Size in UNITS

LITERAL

FLIP\$K\_INIT\_LENGTH = \$FIELD SET SIZE, ! Size in FULLWORDS  
FLIP\$K\_INIT\_SIZE = %UPVAL\*\$FIELD\_SET\_SIZE; ! Size in UNITS

MACRO

\$FLIP\_INIT = BLOCK[FLIP\$K\_INIT\_LENGTH] FIELD(\$FLIP\$INIT\_FIELDS)%;

FLIPRECS -- FLIP/RUNOFF record formats  
RNOTXT -- text record

M 2  
15-Sep-1984 23:07:40  
15-Sep-1984 22:51:29

VAX-11 Bliss-32 V4.0-742 Page 60  
\_S255\$DUA28:[RUNOFF.SRC]FLIPRECS.REQ;1 (3)

%sbttl 'RNOTXT -- text record';

\$FIELD

\$FLIP\$RNOTXT\_FIELDS1= SET

RNOTXT\_CODE = [STINY\_INTEGER]

RNOTXT\_LENGTH = [SSHORT\_INTEGER]

! record type

! length of data portion

TES;

LITERAL

FLIP\$K\_RNOTXT\_BASELEN = \$FIELD\_SET\_SIZE, ! Size in FULLWORDS

FLIP\$K\_RNOTXT\_BASESIZ = %UPVAL\*\$FIELD\_SET\_SIZE;

! Size in UNITS

\$FIELD

\$FLIP\$RNOTXT\_FIELDS2= SET

RNOTXT\_FILLER = [\$SUB\_BLOCK(FLIP\$K\_RNOTXT\_BASELEN)],

RNOTXT\_TEXT = [\$SUB\_BLOCK(1000)] ! TEXT segment

TES;

LITERAL

FLIP\$K\_RNOTXT\_LENGTH = \$FIELD\_SET\_SIZE, ! Size in FULLWORDS

FLIP\$K\_RNOTXT\_SIZE = %UPVAL\*\$FIELD\_SET\_SIZE; ! Size in UNITS

MACRO

\$FLIP\_RNOTXT = BLOCK[FLIP\$K\_RNOTXT\_LENGTH] FIELD(\$FLIP\$RNOTXT\_FIELDS1,  
\$FLIP\$RNOTXT\_FIELDS2)%;

R1515 0  
R1516 00  
R1517 000  
R1518 0000  
R1519 00000  
R1520 000000  
R1521 0000000  
R1522 00000000  
R1523 000000000  
R1524 0000000000  
R1525 00000000000  
R1526 000000000000  
R1527 0000000000000  
R1528 00000000000000  
R1529 000000000000000  
R1530 0000000000000000  
R1531 00000000000000000  
R1532 000000000000000000  
R1533 0000000000000000000  
R1534 00000000000000000000  
R1535 000000000000000000000  
R1536 0000000000000000000000  
R1537 00000000000000000000000  
R1538 000000000000000000000000  
R1539 0000000000000000000000000  
MR1540 00000000000000000000000000  
R1541 0000000000000000000000000000  
R1542 0

FLIPRECS -- FLIP/RUNOFF record formats  
TOCTXT -- TOC text record

N 2  
15-Sep-1984 23:07:40  
15-Sep-1984 22:51:29

VAX-11 Bliss-32 V4.0-742 Page 61  
\_S255\$DUA28:[RUNOFF.SRC]FLIPRECS.REQ;1 (4)

%sbttl 'TOCTXT -- TOC text record';

\$FIELD

\$FLIP\$TOCTXT\_FIELDS1= SET

TOCTXT\_CODE = [\$TINY\_INTEGER], ! record type  
TOCTXT\_MAJOR = [\$TINY\_INTEGER], ! major code  
TOCTXT\_MINOR = [\$TINY\_INTEGER], ! minor code  
TOCTXT\_LENGTH = [\$INTEGER] ! length of data portion

TES;

LITERAL

FLIP\$K\_TOCTXT\_BASELEN = \$FIELD SET SIZE, ! Size in FULLWORDS

FLIP\$K\_TOCTXT\_BASESIZ = XUPVAL\*\$FIELD\_SET\_SIZE; ! Size in UNITS

\$FIELD

\$FLIP\$TOCTXT\_FIELDS2= SET

TOCTXT\_FILLER = [\$SUB\_BLOCK(FLIP\$K\_TOCTXT\_BASELEN)],  
TOCTXT\_TEXT = [\$SUB\_BLOCK(1000)] ! TEXT segment

TES;

LITERAL

FLIP\$K\_TOCTXT\_LENGTH = \$FIELD SET SIZE, ! Size in FULLWORDS

FLIP\$K\_TOCTXT\_SIZE = XUPVAL\*\$FIELD\_SET\_SIZE; ! Size in UNITS

MACRO

\$FLIP\_TOCTXT = BLOCK[FLIP\$K\_TOCTXT\_LENGTH] FIELD(\$FLIP\$TOCTXT\_FIELDS1,  
\$FLIP\$TOCTXT\_FIELDS2)%;

R1543 0  
R1544 0  
R1545 0  
R1546 0  
R1547 0  
R1548 0  
R1549 0  
R1550 0  
R1551 0  
R1552 0  
R1553 0  
R1554 0  
R1555 0  
R1556 0  
R1557 0  
R1558 0  
R1559 0  
R1560 0  
R1561 0  
R1562 0  
R1563 0  
R1564 0  
R1565 0  
R1566 0  
R1567 0  
R1568 0  
R1569 0  
MR1570 0  
R1571 0  
R1572 0

FLIPRECS -- FLIP/RUNOFF record formats  
TOCRD -- TOC descriptor

8 3  
15-Sep-1984 23:07:40  
15-Sep-1984 22:51:29

VAX-11 Bliss-32 V4.0-742 Page 62  
\_S255SDUA28:[RUNOFF.SRC]FLIPRECS.REQ;1 (5)

%sbttl 'TOCRD -- TOC descriptor';

\$FIELD

\$FLIP\$TOCRD\_FIELDS = SET  
TOCRD\_CODE = [STINY\_INTEGER], ! record type  
TOCRD\_MAJOR = [SINTEGER], ! major code  
TOCRD\_MINOR = [SINTEGER] ! minor code

TES;

LITERAL

FLIP\$K\_TOCRD\_LENGTH = \$FIELD SET SIZE, ! Size in FULLWORDS  
FLIP\$K\_TOCRD\_SIZE = %UPVAL\*\$FIELD\_SET\_SIZE; ! Size in UNITS

MACRO

\$FLIP\_TOCRD = BLOCK[FLIP\$K\_TOCRD\_LENGTH] FIELD(\$FLIP\$TOCRD\_FIELDS)%;

FLIPRECS -- FLIP/RUNOFF record formats  
TOCPAG -- TOC page record

6 3  
15-Sep-1984 23:07:40  
15-Sep-1984 22:51:29

VAX-11 B11ss-32 V4.0-742 Page 63  
\_S255SDUA28:[RUNOFF.SRC]FLIPRECS.REQ;1 (6)

%sbttl 'TOCPAG -- TOC page record';

\$FIELD

\$FLIP\$TOCPAG\_FIELDS = SET

TOCPAG\_CODE = [%TINY\_INTEGER] ! record type

TOCPAG\_PAGENO = [%SUB\_BLOCK(PAGE\_SCT\_SIZE)] ! page number segment

TES;

LITERAL

FLIP\$K\_TOCPAG\_LENGTH = \$FIELD SET SIZE, ! Size in FULLWORDS

FLIP\$K\_TOCPAG\_SIZE = %UPVAL\*\$FIELD\_SET\_SIZE; ! Size in UNITS

MACRO

\$FLIP\_TOCPAG = BLOCK[FLIP\$K\_TOCPAG\_LENGTH] FIELD(\$FLIP\$TOCPAG\_FIELDS)%;

FLIPRECS -- FLIP/RUNOFF record formats  
TCXXTN -- index

0 3  
15-Sep-1984 23:07:40  
15-Sep-1984 22:51:29

VAX-11 Bliss-32 V4.0-742 Page 64  
\_S255SDUA28:[RUNOFF.SRC]FLIPRECS.REQ;1 (7)

%sbttl 'TCXXTN -- index';

\$FIELD

\$FLIP\$TCXXTN\_FIELDS = SET

TCXXTN\_CODE = [\$TINY\_INTEGER], ! record type

\$ALIGN(FULLWORD)

TCXXTN\_XTN = [\$INTEGER], ! transaction type

TCXXTN\_SCT = [\$SUB\_BLOCK(PAGE\_SCT\_SIZE)] ! page number segment

TES;

LITERAL

FLIP\$K\_TCXXTN\_LENGTH = \$FIELD\_SET\_SIZE, ! Size in FULLWORDS

FLIP\$K\_TCXXTN\_SIZE = %UPVAL\*\$FIELD\_SET\_SIZE; ! Size in UNITS

MACRO

\$FLIP\_TCXXTN = BLOCK[FLIP\$K\_TCXXTN\_LENGTH] FIELD(\$FLIP\$TCXXTN\_FIELDS)%;

FLIPRECS -- FLIP/RUNOFF record formats  
TOCHLI -- TOC header level info record

E 3  
15-Sep-1984 23:07:40  
15-Sep-1984 22:51:29

VAX-11 Bliss-32 V4.0-742 Page 65  
\_S255SDUA28:[RUNOFF.SRC]FLIPRECS.REQ;1 (8)

%sbttl 'TOCHLI -- TOC header level info record';

\$FIELD

\$FLIPSTOCHLI\_FIELDS = SET  
TOCHLI\_CODE = [\$TINY\_INTEGER], ! record type  
TOCHLI\_HLLIST = [\$SUB\_BLOCK(2\*MAX\_LEVELS)], ! header level info  
TOCHLI\_HLDSP = [\$SUB\_BLOCK(MAX\_LEVELS)], ! header level display info

TES;

LITERAL

FLIP\$K\_TOCHLI\_LENGTH = \$FIELD\_SET\_SIZE, ! Size in FULLWORDS  
FLIP\$K\_TOCHLI\_SIZE = %UPVAL\*\$FIELD\_SET\_SIZE; ! Size in UNITS

MACRO

\$FLIP\_TOCHLI = BLOCK[FLIP\$K\_TOCHLI\_LENGTH] FIELD(\$FLIPSTOCHLI\_FIELDS)%;

FLIPRECS -- FLIP/RUNOFF record formats  
TCXINI -- Index Header record

F 3  
15-Sep-1984 23:07:40  
15-Sep-1984 22:51:29

VAX-11 B11ss-32 V4.0-742 Page 66  
\_S255SDUA28:[RUNOFF.SRC]FLIPRECS.REQ;1 (9)

%sbttl 'TCXINI -- Index Header record';

\$FIELD

\$FLIPSTCXINI\_FIELDS = SET

TCXINI\_CODE = [\$TINY\_INTEGER],

TCXINI\_HEADER = [\$INTEGER]

! record type

! TCX format indicator

TES;

LITERAL

FLIPSK\_TCXINI\_LENGTH = \$FIELD SET SIZE, ! Size in FULLWORDS

FLIPSK\_TCXINI\_SIZE = %UPVAL\*\$FIELD\_SET\_SIZE; ! Size in UNITS

MACRO

\$FLIP\_TCXINI = BLOCK[FLIPSK\_TCXINI\_LENGTH] FIELD(\$FLIPSTCXINI\_FIELDS)%;

FLIPRECS -- FLIP/RUNOFF record formats  
TCXTXT -- Index TEXT record

6 3  
15-Sep-1984 23:07:40  
15-Sep-1984 22:51:29

VAX-11 Bliss-32 V4.0-742 Page 67  
\_S255SDUA28:[RUNOFF.SRC]FLIPRECS.REQ;1 (10)

%sbttl 'TCXTXT -- Index TEXT record';

\$FIELD

\$FLIP\$TCXTXT\_FIELDS1 = SET

TCXTXT\_CODE = [\$TINY\_INTEGER],

! record type

\$ALIGN(FULLWORD)

TCXTXT\_ENTRY = [\$INTEGER],

! ENTRY flag

TCXTXT\_LENGTH = [\$INTEGER],

! length of data

TCXTXT\_XTN = [\$INTEGER],

! transaction number

TCXTXT\_BAR = [\$INTEGER]

! change bar flag

TES;

LITERAL

FLIP\$K\_TCXTXT\_BASELEN = \$FIELD SET SIZE, ! Size in FULLWORDS

FLIP\$K\_TCXTXT\_BASESIZ = %UPVAL\*\$FIELD\_SET\_SIZE; ! Size in UNITS

\$FIELD

\$FLIP\$TCXTXT\_FIELDS2 = SET

TCXTXT\_DUMMY = [\$SUB\_BLOCK(FLIP\$K\_TCXTXT\_BASELEN)],

TCXTXT\_TEXT = [\$SUB\_BLOCK(1000)] ! text of entry

TES;

LITERAL

FLIP\$K\_TCXTXT\_LENGTH = \$FIELD SET SIZE, ! Size in FULLWORDS

FLIP\$K\_TCXTXT\_SIZE = %UPVAL\*\$FIELD\_SET\_SIZE; ! Size in UNITS

MACRO

\$FLIP\_TCXTXT = BLOCK[FLIP\$K\_TCXTXT\_LENGTH] FIELD(\$FLIP\$TCXTXT\_FIELDS1,  
\$FLIP\$TCXTXT\_FIELDS2)%;

FLIPRECS -- FLIP/RUNOFF record formats  
TOCHL -- HL indicator record

M 3  
15-Sep-1984 23:07:40  
15-Sep-1984 22:31:29

VAX-11 B11ss-32 V4.0-742 Page 68  
\_S255SDUA28:[RUNOFF.SRC]FLIPRECS.REQ;1 (11)

%sbttl 'TOCHL -- HL indicator record';

\$F ELD

\$FLIP\$TOCHL\_FIELDS = SET

TOCHL\_CODE = [STINY\_INTEGER]

! record type

TES;

LITERAL

FLIP\$K\_TOCHL\_LENGTH = \$FIELD SET SIZE; ! Size in FULLWORDS

FLIP\$K\_TOCHL\_SIZE = %UPVAL\*\$FIELD\_SET\_SIZE; ! Size in UNITS

MACRO

\$FLIP\_TOCHL = BLOCK[FLIP\$K\_TOCHL\_LENGTH] FIELD(\$FLIP\$TOCHL\_FIELDS)%;

FLIPRECS -- FLIP/RUNOFF record formats  
TOCHL -- HL indicator record

<sup>1</sup><sub>3</sub>  
15-Sep-1984 23:07:40  
15-Sep-1984 22:50:43

VAX-11 Bliss-32 V4.0-742  
\_S255SDUA28:[RUNOFF.SRC]DSRLIB.REQ;1 Page 69  
(2)

: 1699 0 REQUIRE 'REQ:FNCT.REQ'; ! footnote control table

R1700 0  
R1701 0  
R1702 0  
R1703 0  
R1704 0  
R1705 0  
R1706 0  
R1707 0  
R1708 0  
R1709 0  
R1710 0  
R1711 0  
R1712 0  
R1713 0  
R1714 0  
R1715 0  
R1716 0  
R1717 0  
R1718 0  
R1719 0  
R1720 0  
R1721 0  
R1722 0  
R1723 0  
R1724 0  
R1725 0  
R1726 0  
R1727 0  
R1728 0  
R1729 0  
R1730 0  
R1731 0  
R1732 0  
R1733 0  
R1734 0  
R1735 0

Version: 'V04-000'

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++  
FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS  
ABSTRACT: Footnote control table.  
ENVIRONMENT: Transportable BLISS  
AUTHOR: Rich Friday CREATION DATE: 1978

FLIPRECS -- FLIP/RUNOFF record formats  
TOCHL -- HL indicator record

K 5  
15-Sep-1984 23:07:40  
15-Sep-1984 22:51:35

VAX-11 Bliss-32 V4.0-742  
\_S255\$DUA28:[RUNOFF.SRC]FNCT.REQ;1

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(2)

R1736 0  
R1737 0  
R1738 0  
R1739 0  
R1740 0  
R1741 0  
R1742 0  
R1743 0  
R1744 0  
R1745 0  
R1746 0  
R1747 0  
R1748 0  
R1749 0  
R1750 0  
R1751 0  
R1752 0

MODIFIED BY:

004 RER00004 Ron Randall 05-Apr-1983  
For DSRPLUS: For footnote numbering, added  
fnct\_first\_line and fnct\_number\_l/r.

003 RER00003 Ron Randall 27-Mar-1983  
For DSRPLUS:  
Added fnct\_numbering and fnct\_number to indicate numbering  
of footnotes and to hold the number of the current footnote  
on this page.

002 KAD00002 Keith Dawson 07-Mar-1983  
Global edit of all modules. Updated module names, idents,  
copyright dates. Changed require files to BLISS library.

MACRO

Number of unexpanded footnotes waiting to be output.  
fnct\_count = fnct [0] %,  
Number of unexpanded footnotes on or before current page.  
fnct\_ready = fnct [1] %,  
The 'n' from .FOOTNOTE n (zero if not given).  
fnct\_n = fnct [2] %,  
Number of expanded footnotes present in these tables.  
fnct\_old = fnct [3] %,  
This many footnotes are attached to lines not yet output.  
fnct\_waiting = fnct [4] %,  
TRUE between .FOOTNOTE and .END FOOTNOTE.  
fnct\_collecting = fnct [5] %,  
TRUE if putting a footnote out onto a page.  
fnct\_expanding = fnct [6] %,  
TRUE if numbering footnotes.  
fnct\_numbering = fnct [7] %,  
TRUE if building first line of a numbered footnote.  
fnct\_first\_line = fnct [8] %,  
Left digit of the current footnote in this chapter.  
fnct\_number\_l = fnct [9] %,  
Right digit of the current footnote in this chapter.  
fnct\_number\_r = fnct [10] %,  
Current footnote in this chapter.  
fnct\_number = fnct [11] %;

LITERAL

Number of words of control information in these tables.  
fnct\_control = 12,  
Maximum number of footnotes that can be noted in these tables.

R1810 0  
R1811 0  
R1812 0  
R1813 0  
R1814 0  
R1815 0  
R1816 0  
R1817 0  
R1818 0  
R1819 0  
R1820 0  
R1821 0  
R1822 0  
R1823 0  
R1824 0  
R1825 0  
R1826 0  
R1827 0  
R1828 0  
R1829 0  
R1830 0  
R1831 0  
R1832 0  
R1833 0  
R1834 0

```
!
fnct_max          = 20;

MACRO
!
! All footnote control information saved in this vector.
fnct_definition = VECTOR [fnct_control] %;

MACRO
!
! Sizes of individual footnotes. There are .fnct_count + .fnct_old
! entries, of which only the last .fnct_count are useful; of those,
! it's ok to output at most .fnct_ready of them right now.
! (The extra position allocated as a one-word work area.)
fn_ext_size_definition = VECTOR [fnct_max + 1] %;

MACRO
!
! Number of TSF/MRA pairs in each saved footnote.
fn_int_size_definition = VECTOR [fnct_max + 1] %;

! End of fnct.REQ
```

FLIPRECS -- FLIP/RUNOFF record formats  
TOCHL -- ML indicator record

N 3  
15-Sep-1984 23:07:40  
15-Sep-1984 22:50:43

VAX-11 Bliss-32 V4.0-742  
\_S255SDUA28:[RUNOFF.SRC]DSRLIB.REQ;1

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; 1835 0 REQUIRE 'REQ:FOOREC.REQ'; ! FOOREC\_... items (for FN record headers)

Version: 'V04-000'

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FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS

ABSTRACT:

FOOREC.REQ defines the format of record headers for records written  
during footnote processing to the footnote temporary files, 00XRNO.TMP.  
Each record header gives some cursory information about the record that  
follows it. Such records are, typically, a TSF, an MRA, or "pass-  
through" information intended for indexing or table of contents.

Note that FOOREC ADDRESS, although allocated as part of FOOREC, is  
never read or written. Instead, FOO\_PREAD, on reading a "pass-  
through" record, returns the address of the information there.  
FOO\_PWRITE uses that to determine where the information to be written  
is stored.

ENVIRONMENT: Transportable BLISS

AUTHOR: Rich Friday

CREATION DATE: 1982

MODIFIED BY:

002 KAD00002 Keith Dawson 07-Mar-1983  
Global edit of all modules. Updated module names, ids, and  
copyright dates. Changed require files to BLISS library.

FLIPRECS -- FLIP/RUNOFF record formats  
TOCHL -- HL indicator record

15-Sep-1984 23:07:40  
15-Sep-1984 22:51:47

VAX-11 Bliss-32 V4.0-742  
\_S25SDUA28:[RUNOFF.SRC]FOOREC.REQ;1

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(1)

MACRO

FOOREC\_MAJOR\_TYPE = FOOREC [0]%,  
FOOREC\_MINOR\_TYPE = FOOREC [1]%,  
FOOREC\_RECORD\_SIZE = FOOREC [2]%,  
FOOREC\_XTN\_PTR = FOOREC [3]%,

FOOREC\_ADDRESS = FOOREC [4]%;

!The major record type (required information).  
!The minor record type (optional information).  
!Number of words in data record that follows (required information).  
!If not zero, then it's the number of the word in the record where  
! a transaction number is stored.  
!Location of information read/written.

LITERAL

FOOREC\_SIZE = 4;

!Number of words in the record header.

MACRO

FOOREC\_DEFINITION  
= VECTOR [FOOREC\_SIZE + 1] %;

!Here are the major and minor record types.

LITERAL

FOOREC\_MAJ\_TSF = 0,  
FOOREC\_MAJ\_MRA = 1,  
FOOREC\_MAJ\_PASS = 2,  
FOOREC\_MIN\_INDEX = 0,  
FOOREC\_MIN\_TOC = 1,  
FOOREC\_MIN\_TEXT = 2;

!The record is a TSF data structure.  
!The record is an MRA data structure.  
!"Pass-through" information.  
!Indexing information.  
!Table of contents information.  
!Something to do with normal text.

LITERAL

FOOREC\_MAX\_MAJ = 2,  
FOOREC\_MAX\_MIN = 2;

!The largest major record type.  
!The largest minor record type.

!

End of FOOREC.REQ

FLIPRECS -- FLIP/RUNOFF record formats  
TOCHL -- HL indicator record

<sup>D 4</sup>  
15-Sep-1984 23:07:40  
15-Sep-1984 22:50:43

VAX-11 BLISS-32 V4.0-742  
\_S255SDUA28:[RUNOFF.SRC]DSRLIB.REQ;1

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(2)

; 1922 0 REQUIRE 'REQ:FRMSTK.REQ'; ! Codes for .LS & .NT context save stack

Version: 'V04-000'

```
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*****
```

++  
FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS

ABSTRACT:  
Definitions related to the data stack on which formatting information  
is saved by the .NOTE and .LIST commands. Information is removed by  
.END NOTE and .END LIST commands.

ENVIRONMENT: Compatible BLISS

AUTHOR: Rich Friday

CREATION DATE: 1978

MODIFIED BY:

003 KAD00003 Keith Dawson 07-Mar-1983  
Global edit of all modules. Updated module names, ids, copyright dates. Changed require files to BLISS library.

--  
LITERAL FRMSTK\_LIMIT = CL\_DEFAULT\_SIZE;  
Maximum depth of the stack. It is 15 at  
this point; but the actual value is kept  
only in CLIST.REQ.

LITERAL FRMSTK\_FILL = 01, A copy of SCA\_FILL  
FRMSTK\_JUSTIFY = 02, A copy of SCA\_JUSTIFY

R1980 0  
R1981 00  
R1982 00  
R1983 00  
R1984 00  
R1985 00  
R1986 00  
R1987 00  
R1988 00  
R1989 00  
R1990 00  
R1991 00  
R1992 00  
R1993 00  
R1994 00  
R1995 00  
R1996 00  
R1997 00  
R1998 00  
R1999 00  
R2000 00  
R2001 00  
R2002 00  
R2003 00  
R2004 0

FRMSTK_RM	= 03.	A copy of SCA_RM
FRMSTK_LM	= 04.	A copy of SCA_LM
FRMSTK_SPACING	= 05.	A copy of SCA_SPACING
FRMSTK_COMMAND	= 06.	The handler code for the command responsible for this entry
FRMSTK_ISEQN	= 07.	The input sequence number for the command
FRMSTK_IPAGEN	= 08.	The input page number for the command
FRMSTK_FSPECP	= 09.	A reference to the file-spec in which the command occurred.
FRMSTK_FSPECC	= 10.	The length of the file-spec in which the command occurred.
FRMSTK_REQ_D	= 11.	The .REQUIRE nesting level in effect
FRMSTK_CROCK	= 12.	A copy of SCA_CROCK
FRMSTK_DO_NBITS	= 13.	A copy of SCA_DO_NBITS
FRMSTK_KER	= 14.	A copy of SCA_KER
FRMSTK_INDEX	= 15.	A copy of SCA_INDEX.

LITERAL

FRMSTK\_ITEM\_CNT = 15; ! Number of pieces of info per entry

!One more entry is allocated than requested so than the routine  
!LIT (process literals) can save information.

STRUCTURE

FORM\_STACK[I,J;N=FRMSTK\_ITEM\_CNT,M=FRMSTK\_LIMIT] =  
[XUPVAL+( N\*(M + 1) )]  
(FORM\_STACK + XUPVAL+( (I - 1)\*M + J - 1) );

!

End of FRMSTK.REQ

FLIPRECS -- FLIP/RUNOFF record formats  
TOCHL -- HL indicator record

6 4  
15-Sep-1984 23:07:40  
15-Sep-1984 22:50:43

VAX-11 Bliss-32 V4.0-742  
\_S255SDUA28:[RUNOFF.SRC]DSRLIB.REQ;1

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(2)

; 2005 0 REQUIRE 'REQ:FSPACK.REQ'; ! FIXED\_STRING structure & FS\_... macros

Version: 'V04-000'

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FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS

ABSTRACT:  
Macros to manipulate FIXED\_STRINGS: transportable, fixed-length  
strings.

ENVIRONMENT: Transportable BLISS

AUTHOR: Rich Friday

CREATION DATE: 1978

MODIFIED BY:

002 KAD00002 Keith Dawson 07-Mar-1983  
Global edit of all modules. Updated module names, idsents,  
copyright dates. Changed require files to BLISS library.

FIXED STRING is a structure that contains a string of an expected maximum  
length, plus additional locations to contain information related to the  
status of the string.

STRUCTURE  
fixed\_string[i;n=1] =  
[4\*%UPVAL + CH\$ALLOCATION(N\*%UPVAL)]  
(fixed\_string - %UPVAL\*(1 - 1));

!+ The following literals are names for the fields allocated above. These names are not to be used by a user.

LITERAL

FS_FCP	= 01;	CHSPTR to first character position.
FS_NCP	= 02;	CHSPTR to next character position.
FS_MAX	= 03;	Capacity of the counted string.
FS_LEN	= 04;	Current length.

!+ FS\_ALLOCATE is used to allocate and initialize a fixed-length string.

MACRO

```
fs_allocate (fs_name, fs_maxl) =
    fs_name:fixed_string [fs_maxl]
    INITIAL (0,
            0,
            fs_maxl,
            0)
```

z;

!+ Control information is accessed via the following macros.

MACRO

```
fs_start (fs_name) =
    fs_name [fs_fcp]
z,

fs_next (fs_name) =
    fs_name [fs_ncp]
z,

fs_maxsize (fs_name) =
    fs_name [fs_max]
z,

fs_length (fs_name) =
    fs_name [fs_len]
z;
```

!+ FS\_INIT initializes a fixed-length string to the null string.

MACRO

```
fs_init (fs_name) =
    BEGIN
        fs_length (fs_name) = 0;
        fs_start (fs_name) = CHSPTR (fs_name [5]);
        fs_next (fs_name) = .fs_start (fs_name);
    END
```

z;

!+ FS\_WCHAR puts a character into the fixed-length string.

R2063 0  
R2064 0  
R2065 0  
R2066 0  
R2067 0  
R2068 0  
R2069 0  
R2070 0  
R2071 0  
R2072 0  
R2073 0  
R2074 0  
R2075 0  
R2076 0  
MR2077 0  
MR2078 0  
MR2079 0  
MR2080 0  
MR2081 0  
MR2082 0  
R2083 0  
R2084 0  
R2085 0  
R2086 0  
R2087 0  
R2088 0  
MR2089 0  
MR2090 0  
R2091 0  
R2092 0  
MR2093 0  
MR2094 0  
R2095 0  
R2096 0  
MR2097 0  
MR2098 0  
R2099 0  
R2100 0  
MR2101 0  
MR2102 0  
R2103 0  
R2104 0  
R2105 0  
R2106 0  
R2107 0  
R2108 0  
MR2109 0  
MR2110 0  
MR2111 0  
MR2112 0  
MR2113 0  
MR2114 0  
R2115 0  
R2116 0  
R2117 0  
R2118 0  
R2119 0

..R2120 0  
..MR2121 0  
..MR2122 0  
..MR2123 0  
..MR2124 0  
..MR2125 0  
..R2126 0  
..R2127 0  
..R2128 0  
..R2129 0  
..R2130 0  
..R2131 0  
..R2132 0  
..MR2133 0  
..MR2134 0  
..MR2135 0  
..MR2136 0  
..MR2137 0  
..R2138 0  
..R2139 0  
..R2140 0

```
MACRO
    fs_wchar (fs_name,khar)      =
        BEGIN
            CH$WCHAR A (khar, fs_next (fs_name)); !Write character and advance pointer.
            fs_length (fs_name) = .fs_length (fs_name) + 1; !Bump total length count.
        END
    %;

!+
!- FS_RCHAR gets a character from the fixed-length string.
!-
MACRO
    fs_rchar (fs_name,khar)      =
        BEGIN
            khar = CH$RCHAR A (fs_next (fs_name)); !Read character and advance pointer.
            fs_length (fs_name) = .fs_length (fs_name) - 1; !Decrement remainder count.
        END
    %;

!
    End of FSPACK.REQ
```

FLIPRECS -- FLIP/RUNOFF record formats  
TOCHL -- HL indicator record

<sup>K 4</sup>  
15-Sep-1984 23:07:40  
15-Sep-1984 22:50:43

VAX-11 Bliss-32 V4.0-742  
\_S255SDUA28:[RUNOFF.SRC]DSRLIB.REQ;1

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(2)

; 2141 0 REQUIRE 'REQ:GCA.REQ'; ! GCA (General Control Array) definitions

GCA.REQ Definitions pertaining to the General Control Area (GCA)  
IDENT 026

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FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS

ABSTRACT:  
Definitions for the GCA (Global Control Area). Initialized by  
DOOPTS from command-line information.

ENVIRONMENT: Transportable BLISS

AUTHOR: Rich Friday

CREATION DATE: 1978

MODIFIED BY:

026	REM00026	Ray Marshall	16-May-1983
	Added support for outputting output lines numbers by adding another macro: GCA_CMD_OSD		
025	REM00025	Ray Marshall	16-November-1983
	Added macros so that Ken's SAVRES module can load cells with them instead of using numeric offsets. They have the string "_f_" within them.		
024	KFA00024	Ken Alden	10-Oct-1983
	Put gca_cmd_pages in the right place.		
023	KFA00023	Ken Alden	06-Oct-1983
	Added gca_cmd_pages to signal the /pages qualifier.		

R2199  
R2200  
R2201  
R2202  
R2203  
R2204  
R2205  
R2206  
R2207  
R2208  
R2209  
R2210  
R2211  
R2212  
R2213  
R2214  
R2215  
R2216  
R2217  
R2218  
R2219  
R2220  
R2221  
R2222  
R2223  
R2224  
R2225  
R2226  
R2227  
R2228  
R2229  
R2230  
R2231  
R2232  
R2233  
R2234  
R2235  
R2236  
R2237  
R2238  
R2239  
R2240  
R2241  
R2242  
R2243  
R2244  
R2245  
R2246  
R2247  
R2248  
R2249  
R2250  
R2251  
R2252  
R2253  
R2254  
R2255

022 KFA00022 Ken Alden 27-Jul-1983  
Added gca\_flag\_cmd to SAVE list.  
021 KFA00021 Ken Alden 15-Jul-1983  
Added gca\_do\_cont\_already, gca\_do\_index\_already.  
020 KFA00020 Ken Alden 27-Jun-1983  
Added gca\_cref\_errcnt to the top eight bits of black\_box.  
019 KFA00019 Ken Alden 13-Jun-1983  
Made use of GCA[45] for flaging /down line skipping. Used in  
TOPPAG and USKIPL.  
018 KAD00018 Keith Dawson 12-May-1983  
Use 16 bits each for page, index, contents, cref counts.  
017 KAD00017 Keith Dawson 21-Mar-1983  
Add bits for LNO1 output options.  
016 KFA00016 Ken Alden 16-Mar-1983  
Save/restore now permitted in DSR.  
015 KAD00015 Keith Dawson 07-Mar-1983  
Global edit of all modules. Updated module names, idsents,  
copyright dates. Changed require files to BLISS library.

MACRO

gca\_com\_start = GCA[ 00 ]%, !A CHSPTR to the first character of the  
!current command (usually it's a '.')

gca\_autopara = .GCA[ 01 ]%, !((SAVEALL)True if user said .AUTOPARAGRAPH  
gca\_f\_autopara = GCA[ 01 ]%,  
gca\_autosubt = .GCA[ 02 ]%, !((SAVEALL)True if user said .AUTOSUBTITLE  
gca\_f\_autosubt = GCA[ 02 ]%,  
gca\_autotabl = .GCA[ 03 ]%, !((SAVEALL)True if user said .AUTOTABLE  
gca\_f\_autotabl = GCA[ 03 ]%,  
gca\_autojust = .GCA[ 04 ]%, !((SAVEALL)True if user said .AUTOJUSTIFY  
gca\_f\_autojust = GCA[ 04 ]%,

gcaBars = (GCA[05])<BAR-->%, !GCA BARS ENAB & GCA BARS ON.  
gcaBars\_enab = (GCA[06])<BAR-->%, !Controlled by .ENABE/.DISABLE BAR.  
gcaBars\_on = (GCA[07])<BAR-->%, !Controlled by .BEGIN/.END BAR.  
gcaEverBars = (GCA[08])<BAR-->%, !True if change bars ever enabled.  
gcaDraft\_f = GCA[ 09 ]%, !If user said /DEBUG, the character to be used as draft flag (from .VARIABLE  
gcaChapt = GCA[ 10 ]%, !True if document contains chapters/appendices  
gcaTwidht\_36 = GCA[ 11 ]%, !TOPS-20 terminal wrap width (DSRPLUS only).  
gcaConcat = GCA[ 12 ]%, !True if .NO SPACE is pending.  
gcaCmd\_msg = GCA[ 13 ]%, !Routing code for error messages  
gcaLit\_count = GCA[ 14 ]%, !If a counted literal, the # of lines.  
gcaPchax = GCA[ 15 ]%, !True if a .NUMBER CHAPTER or .NUMBER APPENDIX command has already set up NP  
gcaTescape\_36 = GCA[ 16 ]%, !TOPS-20 terminal escape characteristics (DSRPLUS only)

gcaCmd\_nbits = GCA[ 17 ]%, !Ultimate controls for miscellaneous functions.  
gcaLit\_flag = GCA[ 18 ]%, !status of .GCA\_FLAG\_CMD during literal processing.  
gcaCmd\_lstbts = GCA[ 19 ]%, !Ultimate controls for misc functions.  
gcaLiteral = GCA[ 20 ]%, !True between .LITERAL and .END LITERAL

```

R2256 0 gca_xcase = GCA[ 21 ]%, !(SAVEALL)Case rules for index entries.
R2257 0 gca_f_xcase = GCA[ 21 ]%,
R2258 0
R2259 0 gca_page_cnt = GCA[ 22 ]%, !Number of pages generated so far.
R2260 0 gca_contents_cnt = GCA[ 23 ]%, !Number of table-of-contents entries written to the .BRN file.
R2261 0 gca_index_cnt = GCA[ 24 ]%, !Number of index entries written to the .BRN file.
R2262 0 gca_old_cref_cnt = GCA[ 25 ]%, !Number of cross-reference entries read from the old .BRN file.
R2263 0 gca_new_cref_cnt = GCA[ 26 ]%, !Number of cross-reference entries written to the .BRN file.
R2264 0
R2265 0 gca_orange_cnt = GCA[ 27 ]%, !Count of number of page ranges specified on /PAGE_RANGE switch.
R2266 0 gca_skip_out = GCA[ 28 ]%, !True if skipping output because of a /PAGE_RANGE specification.
R2267 0 gca_debug_index = (GCA[29])<0,1>%, !True if debugging the index.
R2268 0 gca_debug_toc = (GCA[29])<1,1>%, !True if debugging the table of contents.
R2269 0 gca_debug_cnd = (GCA[29])<2,1>%, !True if debugging conditionals (.IF, etc.).
R2270 0 gca_debug_fil = (GCA[29])<3,1>%, !True if want file names listed.
R2271 0 gca_debug_cref = (GCA[29])<4,1>%, !True if want cross-reference errors flagged inline.
R2272 0 gca_debug_save = (GCA[29])<5,1>%, !True if want save/restore information echoed.
R2273 0 gca_max_astn = GCA[ 30 ]%, !Result of last .AUTOSUBTITLE command. Remembered during .NO AUTOSUBTITLE
R2274 0 gca_btc = (GCA[31])<0,1>%, !True if a binary table of contents is wanted.
R2275 0 gca_cmd_btc = (GCA[31])<1,1>%, !True iff user said /INTERMEDIATE.
R2276 0 gca_bix = (GCA[31])<2,1>%, !True if a binary index is wanted.
R2277 0
R2278 0 gca_case = GCA[ 32 ]%, !(SAVEALL)Set by .UPPER/LOWER CASE
R2279 0 gca_f_case = GCA[ 32 ]%,
R2280 0 gca_flg_cmd = GCA[ 33 ]%, !(SAVE)Last .FLAGS ALL/.NO FLAGS ALL command
R2281 0 gca_f_flg_cmd = GCA[ 33 ]%,
R2282 0
R2283 0 gca_pwidth = GCA[ 34 ]%, !Physical page width
R2284 0
R2285 0 gca_lwidth = GCA[ 35 ]%, !(SAVE)Logical page width
R2286 0 gca_f_lwidth = GCA[ 35 ]%,
R2287 0
R2288 0 gca_clit = GCA[ 36 ]%, !True for counted literals.
R2289 0 gca_note_prim = GCA[ 37 ]%, !Primary margin adjust for .NOTE
R2290 0 gca_note_alt = GCA[ 38 ]%, !Alternate margin adjust for .NOTE
R2291 0 gca_skipping = (GCA[39])<0,1>%, !True if in the FALSE branch of an .IF command.
R2292 0 gca_nia = GCA[ 40 ]%, !Count of attempted negative indents.
R2293 0 gca_xmarg = GCA[ 41 ]%, !Count of crossed margin attempts.
R2294 0 gca_normal_xtn = GCA[ 42 ]%, !Next transaction number for index entry NOT in a footnote.
R2295 0 gca_foot_xtn = GCA[ 43 ]%, !Next transaction number for index entry in a footnote.
R2296 0 gca_index_fmt = GCA[ 44 ]%, !If True, generate dots in index. (Not currently set anywhere in the code.)
R2297 0 gca_down_flag = (GCA[45])<0,1>%, !True if the unconditional lines are for /down.
R2298 0 gca_max_require = GCA[ 46 ]%, !Same as MAX REQUIRE.
R2299 0 gca_req_depth = GCA[ 47 ]%, !Current depth of .REQUIRE (usually 0, i.e., not a .REQUIRE file).
R2300 0 gca Fehler = GCA[ 48 ]%, !True if any errors have been found.
R2301 0 gca_errcnt = GCA[ 49 ]%, !Count of lines of error messages.
R2302 0 gca_err_dir = GCA[ 50 ]%, !Indicates where errors are to be reported.
R2303 0
R2304 0 gca_keep = GCA[ 51 ]%, !(SAVE)True if user said .KEEP.
R2305 0 gca_f_keep = GCA[ 51 ]%,
R2306 0
R2307 0 gca_io_flags = GCA[ 52 ]%, !General I/O control flags.
R2308 0 gca_cmd_quick = (GCA[52])<0,1>%, !True if /QUICK or /NOOUTPUT.
R2309 0 termination_log = (GCA[52])<1,1>%, !True if /LOG.
R2310 0 gca_flip = (GCA[52])<2,1>%, !True if /DEC=FLIP.
R2311 0 gca_s_output = (GCA[52])<3,1>%, !True if /OUTPUT was explicitly specified.
R2312 0 gca_op_dev = (GCA[52])<4,4>%, !Type of output device (see OPDEV.REQ).

```

```

R2313 0
R2314 0
R2315 0
R2316 0
R2317 0
R2318 0
R2319 0
R2320 0
R2321 0
R2322 0
R2323 0
R2324 0
R2325 0
R2326 0
R2327 0
R2328 0
R2329 0
R2330 0
R2331 0
R2332 0
R2333 0
R2334 0
R2335 0
R2336 0
R2337 0
R2338 0
R2339 0
R2340 0
R2341 0
R2342 0
R2343 0
R2344 0
R2345 0
R2346 0
R2347 0
R2348 0
R2349 0
R2350 0
R2351 0
R2352 0
R2353 0
R2354 0
R2355 0
R2356 0
R2357 0
R2358 0
R2359 0
R2360 0
R2361 0
R2362 0
R2363 0
R2364 0
R2365 0
R2366 0
R2367 0
R2368 0
R2369 0

```

gca\_ln01\_ital\_under = (GCA[52])<8,1>%, ! For LN01 output: set=italics, clear=underlining.  
gca\_ln01\_port\_land = (GCA[52])<9,1>%, ! For LN01 output: set=portrait, clear=landscape.  
gca\_cmd\_pages = (GCA[52])<10,1>%, ! True if /PAGES.

gca\_diag1 = GCA[ 53 ]%, ! First 16 diagnostic control flags.  
gca\_diag2 = GCA[ 54 ]%, ! Second 16 diagnostic control flags.

gca\_xp\_ever = GCA[ 55 ]%, ! True if user gave any .XP/.YP commands since last .DX or .PX.  
gca\_line\_pend = GCA[ 56 ]%, ! Used for OUTHDR in determining if the header has been processed and output.

gca\_black\_box = GCA[ 57 ]%, ! True if user said /AUTOMATIC.  
gca\_cref\_errcnt = (GCA[57])<8,8>%, ! Number of unresolved cross references.  
gca\_cross\_reference = (GCA[58])<0,1>%, ! True if user said /CROSS\_REFERENCE (it's the default).  
gca\_expand\_cref = (GCA[58])<1,1>%, ! True if cross references should be expanded.  
gca\_old\_brn\_exists = (GCA[58])<2,1>%, ! True if an old .BRN file exists and was read.  
gca\_cref\_changed = (GCA[58])<3,1>%, ! True if any cross-reference changed in the course of this run.  
gca\_do\_cont\_already = (GCA[58])<4,1>%, ! True if a do contents has been processed in this run.  
gca\_do\_index\_already = (GCA[58])<5,1>%, ! True if a do index has been processed in this run.  
gca\_rerun\_count = (GCA[59])<0,8>%, ! Number of times DSRPLUS must be rerun for complete and correct /AUTOMATI  
gca\_pass\_count = (GCA[59])<8,8>%, ! Number of the current /AUTOMATIC rerun pass.

LITERAL  
gca\_size = 64; ! Number of cells in GCA. As of version V04-000 there are  
! 5 free cells.

!The following literals define where errors are to be reported  
!NOTE: The bit representation of these literals is used by DOOPTS.

LITERAL  
report\_err\_none = 0; !Report no error messages  
report\_err\_file = 1; !Report in output file only.  
report\_err\_std = 2; !Report on standard error log only.  
report\_err\_both = 3; !Report errors in both output file and on standard error device.

!Definition of diagnostic control flags. The names may be later changed,  
!but for now, these names will at least provide easy access for initial use.

MACRO  
diag1\_0 = (GCA-DIAG1)<0,1>%,  
diag1\_1 = (GCA-DIAG1)<1,1>%,  
diag1\_2 = (GCA-DIAG1)<2,1>%,  
diag1\_3 = (GCA-DIAG1)<3,1>%,  
diag1\_4 = (GCA-DIAG1)<4,1>%,  
diag1\_5 = (GCA-DIAG1)<5,1>%,  
diag1\_6 = (GCA-DIAG1)<6,1>%,  
diag1\_7 = (GCA-DIAG1)<7,1>%,  
diag1\_8 = (GCA-DIAG1)<8,1>%,  
diag1\_9 = (GCA-DIAG1)<9,1>%,  
diag1\_10 = (GCA-DIAG1)<10,1>%,  
diag1\_11 = (GCA-DIAG1)<11,1>%,  
diag1\_12 = (GCA-DIAG1)<12,1>%,  
diag1\_13 = (GCA-DIAG1)<13,1>%,  
diag1\_14 = (GCA-DIAG1)<14,1>%,  
diag1\_15 = (GCA-DIAG1)<15,1>%;

MACRO  
diag2\_0 = (GCA-DIAG2)<0,1>%,  
diag2\_1 = (GCA-DIAG2)<1,1>%,

R2370 0  
R2371 0  
R2372 0  
R2373 0  
R2374 0  
R2375 0  
R2376 0  
R2377 0  
R2378 0  
R2379 0  
R2380 0  
R2381 0  
R2382 0  
R2383 0  
R2384 0  
R2385 0  
R2386 0  
R2387 0  
R2388 0  
R2389 0  
R2390 0  
R2391 0  
R2392 0  
R2393 0  
R2394 0  
R2395 0  
R2396 0  
MR2397 0  
MR2398 0  
R2399 0

diag2-2 = (GCA\_DIAG2)<2.1>%,  
diag2-3 = (GCA\_DIAG2)<3.1>%,  
diag2-4 = (GCA\_DIAG2)<4.1>%,  
diag2-5 = (GCA\_DIAG2)<5.1>%,  
diag2-6 = (GCA\_DIAG2)<6.1>%,  
diag2-7 = (GCA\_DIAG2)<7.1>%,  
diag2-8 = (GCA\_DIAG2)<8.1>%,  
diag2-9 = (GCA\_DIAG2)<9.1>%,  
diag2-10 = (GCA\_DIAG2)<10.1>%,  
diag2-11 = (GCA\_DIAG2)<11.1>%,  
diag2-12 = (GCA\_DIAG2)<12.1>%,  
diag2-13 = (GCA\_DIAG2)<13.1>%,  
diag2-14 = (GCA\_DIAG2)<14.1>%,  
diag2-15 = (GCA\_DIAG2)<15.1>%,

MACRO

!

The following are true if user:

gca\_cmd\_bar = (GCA\_CMD\_LSTBTS)<BAR-->%,  
gca\_cmd\_isq = (GCA\_CMD\_LSTBTS)<ISQ-->%,  
gca\_cmd\_osq = (GCA\_CMD\_LSTBTS)<OSQ-->%,  
gca\_cmd\_rit = (GCA\_CMD\_LSTBTS)<RIT-->%,  
gca\_cmd\_und = (GCA\_CMD\_NBITS)<UND-->%,  
gca\_cmd\_bld = (GCA\_CMD\_NBITS)<BLD-->%,  
gca\_cmd\_ovr = (GCA\_CMD\_NBITS)<OVR-->%,  
gca\_cmd\_ind = (GCA\_CMD\_NBITS)<IND-->%,

did not forbid change bars on the command line.  
requested input sequence numbers.  
requested output line numbers.  
said /RIGHT.  
said /UNDERLINING.  
said /BOLDING.  
said /OVERSTRIKING.  
said /INDEXING.

MACRO

gca\_definition =  
VECTOR [gca\_size]  
%;

FLIPRECS -- FLIP/RUNOFF record formats  
TOCHL -- HL indicator record

D 5  
15-Sep-1984 23:07:40  
15-Sep-1984 22:50:43

VAX-11 Bliss-32 V4.0-742  
\_S255\$DUA28:[RUNOFF.SRC]DSRLIB.REQ;1 Page 90  
(2)

: 2400 0 REQUIRE 'REQ:GETQSC.REQ'; ! GETQ\_... Completion codes

Version: 'V04-000'

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++  
FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS

ABSTRACT:  
Completion codes returned by GETQS

ENVIRONMENT: Transportable BLISS

AUTHOR: Rich Friday

CREATION DATE: 1978

MODIFIED BY:

002 KAD00002 Keith Dawson 07-Mar-1983  
Global edit of all modules. Updated module names, idents,  
copyright dates. Changed require files to BLISS library.

--  
LITERAL

GETQS\_NORMAL = 0; !Everything went ok.  
GETQS\_BAD = 1; !Quoted string ill-formed, etc.  
GETQS\_TOO\_LONG = 2; !Too many characters.  
GETQS\_NONE = 3; !There was no string to get.

!  
End of GETQSC.REQ

FLIPRECS -- FLIP/RUNOFF record formats  
TOCHL -- HL indicator record

<sup>F 5</sup>  
15-Sep-1984 23:07:40  
15-Sep-1984 22:50:43

VAX-11 BLISS-32 V4.0-742  
\_S255SDUA28:[RUNOFF.SRC]DSRLIB.REQ;1 Page 92  
(2)

: 2455 0 REQUIRE 'REQ:GNCC.REQ'; ! Completion codes returned by GNAME.

Version: 'V04-000'

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FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS

ABSTRACT:  
Completion codes returned by GNAME.

ENVIRONMENT: Transportable BLISS

AUTHOR: Rich Friday

CREATION DATE: 1978

MODIFIED BY:

002 KAD00002 Keith Dawson 07-Mar-1983  
Global edit of all modules. Updated module names, idents,  
copyright dates. Changed require files to BLISS library.

LITERAL

GNAME\_NORMAL = 01; | All went well.  
GNAME\_NO\_NAME = 02; | Illegally formed or missing name.  
GNAME\_TOO\_LONG = 03; | Excess characters have been dropped.

LITERAL

GNAME\_CC\_COUNT = 03; | Number of condition codes returned  
by GNAME.

End of GNCC.REQ

FLIPRECS -- FLIP/RUNOFF record formats  
TOCHL -- HL indicator record

H 5  
15-Sep-1984 23:07:40  
15-Sep-1984 22:50:43

VAX-11 Bliss-32 V4.0-742  
\_S255SDUA28:[RUNOFF.SRC]DSRLIB.REQ;1 Page 94  
(2)

: 2513 0 REQUIRE 'REQ:GSLUCC.REQ'; ! GSLU\_... Completion codes

Version: 'V04-000'

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++ FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS

ABSTRACT:  
Completion codes returned by GSLU.

ENVIRONMENT: Transportable BLISS

AUTHOR: Rich Friday

CREATION DATE: 1978

MODIFIED BY:

002 KAD00002 Keith Dawson 07-Mar-1983  
Global edit of all modules. Updated module names, idents,  
copyright dates. Changed require files to BLISS library.

LITERAL

GSLU\_NORMAL = 01: ! All went well.  
GSLU\_NONE = 02: ! Missing string.  
GSLU\_TOO\_LONG = 03: ! Excess characters have been dropped.

LITERAL

GSLU\_CC\_COUNT = 03: ! Number of condition codes returned  
by GSLU.

! End of GSLUCC.REQ

FLIPRECS -- FLIP/RUNOFF record formats  
TOCHL -- HL indicator record

15-Sep-1984 23:07:40  
15-Sep-1984 22:50:43

VAX-11 B11ss-32 V4.0-742  
\_S255SDUA28:[RUNOFF.SRC]DSRLIB.REQ;1 Page 96  
(2)

2571 0  
2572 0  
2573 0  
2574 0  
2575 0  
2576 0

U  
U  
ZIF DSRPLUS %THEN  
REQUIRE 'REQ:GTOKCC.REQ'; ! GT\_... Completion codes  
%FI  
REQUIRE 'REQ:HCT.REQ'; ! HCT\_... (Heading Control Table) & LAYOUT\_...

HCT.REQ Definitions for Header Control Tables

Version: 'V04-000'

```
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FACILITY:      DSR (Digital Standard RUNOFF) / DSRPLUS

ABSTRACT:
  Definitions pertaining to tables that define how headings, etc.
  are to appear.

ENVIRONMENT:   Transportable BLISS

AUTHOR:       Rich Friday

CREATION DATE: 16-October-1980
```

MODIFIED BY:

006 KFA00006 Ken Alden 10-Jul-1984  
Number\_page and NMPG\_NP are now part of SAVE (not saveall).  
005 REM00005 Ray Marshall 16-November-1983  
Added macros so that Ken's SAVRES module can load cells with  
them instead of using numeric offsets. They have the string  
"\_" within them.  
004 KFA00004 Ken Alden 16-Mar-1983  
SAVE/RESTORE now enabled for DSR  
003 KAD00003 Keith Dawson 07-Mar-1983  
Global edit of all modules. Updated module names, idents,  
copyright dates. Changed require files to BLISS library.

MACRO

HCT\_FIRST\_TITLE = HCT[ 0 ]%, ! True if headings wanted on ALL pages.  
HCT\_DATE = .HCT[ 1 ]%, ! (SAVEALL)True if the date is wanted in the subtitle.  
HCT\_f DATE = HCT[ 1 ]%,  
HCT\_HEADERS = .HCT[ 2 ]%, ! (SAVEALL)True if headers are wanted.  
HCT\_f HEADERS = HCT[ 2 ]%,  
HCT\_NUMBER\_PAGE = .HCT[ 3 ]%, ! (SAVE)True if pages are to be numbered.  
HCT\_f\_NUMBER\_PAGE = HCT[ 3 ]%,  
HCT\_ODD\_EVEN = HCT[ 4 ]%, ! "ODD" or "EVEN"-ness of page.  
HCT\_HD CASE = .HCT[ 5 ]%, ! (SAVEALL)Case rules for the words PAGE/INDEX  
HCT\_f HD CASE = HCT[ 5 ]%,  
HCT\_SUBTITLE = .HCT[ 6 ]%, ! (SAVEALL)TRUE if subtitles wanted.  
HCT\_f\_SUBTITLE = HCT[ 6 ]%,  
HCT\_LAYOUT = HCT[ 7 ]%, ! The page layout to be used (see below)  
HCT\_LAYOUTN = HCT[ 8 ]%, ! Blank lines between text and page number at bottom.  
HCT\_LAYOUT NP = HCT[ 9 ]%, ! The page layout to be used on the next page.  
HCT\_LAYOUTN\_NP = HCT[10 ]%, ! Same as HCT\_LAYOUTN, but for next page.  
HCT\_NMPG\_NP = .HCT[11 ]%, ! (SAVE)True if pages are to be numbered on the next page.  
HCT\_f\_NMPG\_NP = HCT[11 ]%,  
%IF DSRPLUS %THEN  
HCT\_TITLE\_ALWAYS = HCT[12 ]% ! True if titles wanted on ALL pages, including chapter pages.  
%FI ;  
LITERAL  
%IF DSRPLUS %THEN  
HCT\_SIZE = 13;  
%ELSE  
HCT\_SIZE = 12;  
%FI  
LITERAL ! Case rules for words PAGE and INDEX

FLIPRECS -- FLIP/RUNOFF record formats  
TOCHL -- HL indicator record

M 5  
15-Sep-1984 23:07:40  
15-Sep-1984 22:52:18

VAX-11 Bliss-32 V4.0-742  
\_S255SDUA28:[RUNOFF.SRC]HCT.REQ;1

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(2)

.....  
R2674 0  
R2675 00  
R2676 00  
R2677 00  
R2678 00  
R2679 00  
R2680 00  
R2681 00  
R2682 00  
R2683 00  
R2684 00  
R2685 00  
R2686 00  
MR2687 00  
R2688 0

HCT\_HD\_LOWER = 0,  
HCT\_HD\_UPPER = 1,  
HCT\_HD\_MIXED = 2;  
  
LITERAL  
  
LAYOUT\_STANDARD = 0,  
LAYOUT\_CENTERED = 1,  
LAYOUT\_FLIP\_ODD = 2,  
  
LAYOUT\_RUN\_BOTC = 3;  
  
MACRO  
  
HCT\_DEFINITION =  
VECTOR[HCT\_SIZE]X;

.....  
: .HEADERS LOWER  
: .HEADERS UPPER  
: .HEADERS MIXED  
:  
: Names for page layouts  
: Standard RUNOFF  
: Title, subtitle centered at top, page number at bottom.  
: Page number at bottom. Flip title, subtitle at top.  
: Start with titles right if odd page.  
: Same as LAYOUT\_STANDARD, but include the running page  
: number centered at the bottom of the page.

FLIPRECS -- FLIP/RUNOFF record formats  
TOCHL -- HL indicator record

N 5  
15-Sep-1984 23:07:40  
15-Sep-1984 22:50:43

VAX-11 Bliss-32 V4.0-742  
\_S255SDUA28:[RUNOFF.SRC]DSRLIB.REQ;1 Page 100  
(2)

: 2689 0 REQUIRE 'REQ:HLC.REQ'; ! HLC\_... (Header Level Control) area items

Version: 'V04-000'

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FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS

ABSTRACT:  
Definitions relating to the HLC (Header Level Control area).

ENVIRONMENT: Transportable BLISS

AUTHOR: Rich Friday

CREATION DATE: 1978

MODIFIED BY:

002 KAD00002 Keith Dawson 07-Mar-1983  
Global edit of all modules. Updated module names, idents,  
copyright dates. Changed require files to BLISS library.

MACRO

HLC_UPPER	= HLC[0]	!Maximum .HL number for which entire text !is to be in upper case.
HLC_CAP	= HLC[1]	!Maximum .HL number for which to capitalize !first character of each word and leave !others alone.
HLC_RUNON	= HLC[2]	!Smallest .HL number for which to generate !'-' and leave no break before next text line.

```

R2747 0
MR2748 HLC_CO_NBITS = HLC[3] !Control carry-over of underlining/bolding/overstriking
MR2749 0 !from .HL to subtitle.
R2750 0
MR2751 HLC_HEADLC = HLC[4] !Leave this many blank lines after the header.
R2752 0
MR2753 HLC_HEADLT = HLC[5] !Anticipate this many lines (include in test page).
R2754 0
MR2755 HLC_HEADLB = HLC[6] !Skip this many lines before the header.
R2756 0
MR2757 HLC_NO_NUMBER = HLC[7] !Smallest .HL number for which to leave the header
MR2758 0 !unnumbered.
R2759 0
MR2760 HLC_HEADSP = HLC[8] !Number of spaces after the section number.
R2761 0
MR2762 HLC_CENTER = HLC[9] !Smallest .HL number for which to center the header
R2763 0 ! (if header is not run-in).
R2764 0
R2765 0 LITERAL
R2766 0 HLC_SIZE = 10; !Number of cells in the HLC.
R2767 0
R2768 0 MACRO
MR2769 0 HLC_CO_BLD = (HLC_CO_NBITS)<BLD__> !Carry over bolding to subtitles.
R2770 0
MR2771 0 HLC_CO_UND = (HLC_CO_NBITS)<UND__> !Carry over underlining to subtitles.
R2772 0
MR2773 0 HLC_CO_OVR = (HLC_CO_NBITS)<OVR__> !Carry over overstriking to subtitles.
R2774 0
R2775 0
R2776 0 MACRO
MR2777 0 HLC_DEFINITION =
R2778 0 VECTOR[HLC_SIZE]%;
R2779 0
R2780 0 ! End of HLC.REQ

```

FLIPRECS -- FLIP/RUNOFF record formats  
TOCHL -- HL indicator record

D 6  
15-Sep-1984 23:07:40  
15-Sep-1984 22:50:43

VAX-11 Bliss-32 V4.0-742  
\_S255SDUA28:[RUNOFF.SRC]DSRLIB.REQ;1 Page 103  
(2)

; 2781 0 REQUIRE 'REQ:IFSTK.REQ'; ! IFSTK\_... stack for nested .IFs

Version: 'V04-000'

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FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS

ABSTRACT:  
Definitions related to the IF stack, for nested .IF commands.

ENVIRONMENT: Transportable BLISS

AUTHOR: Rich Friday

CREATION DATE: 1978

MODIFIED BY:

002 KAD00002 Keith Dawson 07-Mar-1983  
Global edit of all modules. Updated module names, idents,  
copyright dates. Changed require files to BLISS library.

LITERAL

IFSTK_SIZE = 10.	Up to 10 levels of .IFs.
IFSTK_DEPTH = -1.	Index into the IFSTK where the current depth is saved.
IFSTK_VR = 0.	Index to VRxxxx information.
IFSTK_BOOL = 1.	Logical value in effect at this time.
IFSTK_SOURCE = 2.	The handler code of the command that made this entry.
IFSTK_REQ D = 3.	.REQUIRE depth at which .If must terminate.
IFSTK_IPAGEN = 4.	Input file page number.
IFSTK_ISEQN = 5.	Input file sequence number.
IFSTK_FLAG = 6.	The /DRAFT flag that was interrupted.

FLIPRECS -- FLIP/RUNOFF record formats  
TOCHL -- HL indicator record

F 6  
15-Sep-1984 23:07:40  
15-Sep-1984 22:52:26

VAX-11 Bliss-32 V4.0-742  
\_S255SDUA28:[RUNOFF.SRC]IFSTK.REQ;1

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(1)

IFSTK\_ELSE\_FLG = 7; ! The /DRAFT flag for the .else branch.

STRUCTURE

IFSTACK[I,J:N=IFSTK\_SIZE] =

[XUPVAL\*( 8\*N + 1 + 8 )] ! Leave room for the 0th nesting level.

(IFSTACK + (If J eql IFSTK\_DEPTH

then 0

else XUPVAL\*(1 + 8\*I + J) ) );

End of IFSTK.REQ

FLIPRECS -- FLIP/RUNOFF record formats  
TOCHL -- HL indicator record

G 8  
15-Sep-1984 23:07:40  
15-Sep-1984 22:50:43

VAX-11 Bliss-32 V4.0-742  
\_S255\$DUA28:[RUNOFF.SRC]DSRLIB.REQ;1

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(2)

; 2849 0 REQUIRE 'REQ:INDEX.REQ'; ! Structures used by the indexing command

Version: 'V04-000'

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FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS

ABSTRACT:  
Structures for use by the indexing command.

ENVIRONMENT: Transportable BLISS

AUTHOR: Rich Friday

CREATION DATE: 1978

MODIFIED BY:

002 KAD00002 Keith Dawson 07-Mar-1983  
Global edit of all modules. Updated module names, idents,  
copyright dates. Changed require files to BLISS library.

XIF 2\*XBADDR LEQ XBPVAL !Can addresses be packed in a word?

XTHEN  
! Structure of index entry (DECsystem-10/20).

MACRO

X_PREV	= 0.0.18.0 %	!Link to previous item	(HALF WORD)
X_NEXT	= 0.18.18.0 %	!Link to next item (0 ==> EOL)	(HALF WORD)
X_SUBX	= 1.0.18.0 %	!Sub index pointer	(HALF WORD)
X_SIBC	= 1.18.8.0 %	!Sub index level	(BYTE)
X_BARS	= 1.26.1.0 %	!Change bar flag	(BIT)

```

UR2907 0      X_REF      = 2,0,18,0 %;  !Extra reference pointer      (HALF WORD)
UR2908 0      X_TEXT     = 2,18,18,0 %;  !Pointer to text of index item (HALF WORD)
UR2909 0
UR2910 0      LITERAL
UR2911 0      X_ENTRY    = 3;             !Number of words in index entry.
UR2912 0
UR2913 0      ! Structure of extra reference entry (DECsystem-10/20).
UR2914 0      MACRO
UR2915 0      XX_LINK     = 0,0,18,0 %;  !Pointer to additional entries.
UR2916 0      XX_PAGE     = 0,18,18,1 %;  !Transaction number.
UR2917 0
UR2918 0      LITERAL
UR2919 0      XX_ENTRY= 1;                !Length of extra reference entry.
UR2920 0
UR2921 0
UR2922 0      XELSE
UR2923 0      ! Structure of index entry for -11s, VAXes, and -20s with extended addressing.
UR2924 0      MACRO
UR2925 0      X_PREV      = 0,0,XBPVAL,0 %;  !Link to previous item      (WORD)
UR2926 0      X_NEXT      = 1,0,XBPVAL,0 %;  !Link to next item (0 ==> EOL) (WORD)
UR2927 0      X_SUBX      = 2,0,XBPVAL,0 %;  !Sub index pointer          (WORD)
UR2928 0      X_SUBC      = 3,0,8,0 %;       !Sub index level            (BYTE)
UR2929 0      X_BARS      = 3,8,1,0 %;       !Change bar flag            (BIT)
UR2930 0      X_REF       = 4,0,XBPVAL,0 %;  !Extra reference pointer    (WORD)
UR2931 0      X_TEXT      = 5,0,XBPVAL,0 %;  !Pointer to text of index item (WORD)
UR2932 0
UR2933 0      LITERAL
UR2934 0      X_ENTRY     = 6;             !Number of words in index entry.
UR2935 0
UR2936 0      ! Structure of extra reference entry (-11s, VAXes, -20 with extended addressing).
UR2937 0      MACRO
UR2938 0      XX_LINK     = 0,0,XBPVAL,0 %;  !Pointer to additional entries.
UR2939 0      XX_PAGE     = 1,0,XBPVAL,1 %;  !Transaction number.
UR2940 0
UR2941 0      LITERAL
UR2942 0      XX_ENTRY= 2;                !Length of extra reference entry.
UR2943 0      XFI
UR2944 0
UR2945 0      !Dummy datasets
UR2946 0      LITERAL
UR2947 0      DS_X_ENTRY=X_ENTRY,
UR2948 0      DS_XX_ENTRY=XX_ENTRY,
UR2949 0      DS_X_STRING=0;
UR2950 0
UR2951 0      !
UR2952 0      End of INDEX.REQ

```

FLIPRECS -- FLIP/RUNOFF record formats  
TOCHL -- HL indicator record

15-Sep-1984 23:07:40  
15-Sep-1984 22:50:43

VAX-11 Bliss-32 V4.0-742  
\_S255SDUA28:[RUNOFF.SRC]DSRLIB.REQ;1 Page 109  
(2)

: 2952 0 REQUIRE 'REQ:IRAC.REQ'; ! IRAC\_... structure Macros & literal

IRAC.REQ Macros, literals, and structures defining the IRAC.

Version: 'V04-000'

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FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS

ABSTRACT:  
Macros, literals, and structures defining the IRAC (Input Record  
Area).

ENVIRONMENT: Transportable BLISS

AUTHOR: Rich Friday

CREATION DATE: 1978

MODIFIED BY:

004 KAD00004 Keith Dawson 07-Mar-1983  
Global edit of all modules. Updated module names, idents,  
copyright dates. Changed require files to BLISS library.

MACRO

IRAC\_BARS = (IRAC[ 00 ]) < BAR % !TRUE if this line is marked with change bars.  
IRAC\_SEQN\_FLAG = IRAC[ 01 ] % !TRUE if ISEQN is an SOS style line number.  
IRAC\_ISEQN = IRAC[ 02 ] % !Input line number or sequence number.  
IRAC\_IPAGEN = IRAC[ 03 ] % !Input page number.  
IRAC\_FSPECP = IRAC[ 04 ] % !CH\$PTR to the file-spec  
IRAC\_FSPECC = IRAC[ 05 ] % !Number characters in the file-spec  
IRAC\_DRAFT\_FLG = IRAC[ 06 ] % !TRUE/FALSE flag for /DRAFT.

FLIPRECS -- FLIP/RUNOFF record formats  
TOCHL -- HL indicator record

6  
15-Sep-1984 23:07:40  
15-Sep-1984 22:52:35

VAX-11 Bliss-32 V4.0-742  
\_S255SDUA28:[RUNOFF.SRC]IRAC.REQ;1

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(1)

.. R3010 0  
.. R3011 0  
.. R3012 0  
.. R3013 0  
.. R3014 0  
.. MR3015 0  
.. R3016 0  
.. R3017 0  
.. R3018 0

LITERAL      IRAC\_SIZE      = 7;      !Number of elements in IRAC.  
MACRO      IRAC\_DEFINITION =  
            VECTOR[IRAC\_SIZE]X;  
!      End of IRAC.REQ

FLIPRECS -- FLIP/RUNOFF record formats  
TOCHL -- HL indicator record

M 6  
15-Sep-1984 23:07:40  
15-Sep-1984 22:50:43

VAX-11 Bliss-32 V4.0-742  
\_S255\$DUA28:[RUNOFF.SRC]DSRLIB.REQ;1

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(2)

; 3019 0

REQUIRE 'REQ:KC.REQ';

! Definition of macros: KCNS, KCS, & TISF

Version: 'V04-000'

```
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*****
```

++ FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS

ABSTRACT:  
Defines macros for reading a single character from input.

ENVIRONMENT: Transportable BLISS

AUTHOR: Rich Friday

CREATION DATE: 1978

MODIFIED BY:

002 KAD00002 Keith Dawson 07-Mar-1983  
Global edit of all modules. Updated module names, idents,  
copyright dates. Changed require files to BLISS library.

--  
KCNS reads a character and advances the cursor. Substitution, as indicated  
by the presence of the Substitute flag, is never performed.

MACRO

```
kcns( ) =
  (IF .fs_length (ira) LEQ 0
   THEN
     BEGIN
       EXTERNAL LITERAL
       rintes : UNSIGNED (8);
```

```

MR3077 0      khar = rintes;
MR3078 0      fs_length (ira) = -1;
MR3079 0      END
MR3080 0      ELSE
MR3081 0      fs_rchar (ira,khar))
MR3082 0      %;
MR3083 0
MR3084 0      ! KCS reads a character; it calls SUBST if the character read is the
MR3085 0      ! Substitute flag and recognition of the Substitute flag is enabled.
MR3086 0
MR3087 0      MACRO
MR3088 0      kcs( ) =
MR3089 0      BEGIN
MR3090 0      EXTERNAL khar;
MR3091 0      EXTERNAL ROUTINE subst;
MR3092 0      kcs();
MR3093 0      !*****Temporarily turned off
MR3094 0      IF tist (.khar)
MR3095 0      THEN
MR3096 0      subst ();
MR3097 0      !*****End of temporarily turned off
MR3098 0      END
MR3099 0      %;
MR3100 0
MR3101 0      ! TISF returns the value TRUE if KHAR contains the Substitute flag, and
MR3102 0      ! recognition of the Substitute flag is enabled.
MR3103 0
MR3104 0      MACRO
MR3105 0      tist (khar) =
MR3106 0      (.flgt [sub_flag,flag_enabled]      ! Recognition of Substitute flag enabled?
MR3107 0      AND
MR3108 0      .sca_flags      ! Recognition of all flags enabled?
MR3109 0      AND
MR3110 0      (khar EQL .flgt [sub_flag,flag_character])) ! Right character?
MR3111 0      %;
MR3112 0
MR3113 0      !
MR3113 0      End of KC.REQ

```

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\_S255SDUA28:[RUNOFF.SRC]DSRLIB.REQ;1 (2)

```

%IF DSRPLUS %THEN
  REQUIRE 'REQ:KEYWORD.REQ';      ! Keyword-table definitions
%FI

  REQUIRE 'REQ:KWITEM.REQ';      ! Macros to access command-keyword fields

```

Version: 'V04-000'

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FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS  
ABSTRACT: Defines macros for fields of key word entries.  
ENVIRONMENT: Transportable BLISS  
AUTHOR: Rich Friday CREATION DATE: 1978

FLIPRECS -- FLIP/RUNOFF record formats  
TOCHL -- HL indicator record

E 7  
15-Sep-1984 23:07:40  
15-Sep-1984 22:52:44

VAX-11 BLISS-32 V4.0-742  
\_S255SDUA28:[RUNOFF.SRC]KWITEM.REQ;1 Page 117  
(2)

R3156 0  
R3157 0  
R3158 0  
R3159 0  
R3160 0  
R3161 0  
R3162 0  
R3163 0  
R3164 0  
R3165 0  
R3166 0  
R3167 0

MODIFIED BY:

005 RER00005 Ron Randall 17-Mar-1983  
Changed iih to iit to better reflect its topnote function.

004 RER00004 Ron Randall 07-Mar-1983  
Global edit of all modules. Updated module names, idents,  
copyright dates. Changed require files to BLISS library.  
Changed all <macro name>s to kwitem\_<macro\_name> to avoid  
conflict with LP1.BLI.

MACRO

Length of keyword.

item\_length (item) =

BEGIN

BIND x = .item [0]: VECTOR;

x [0]

END %.

Address of keyword, CHSPTR.

p\_word (item) =

BEGIN

BIND x = .item [0]: VECTOR;

x [1]

END %.

Handler code.

kitem\_handler\_code (item) = item [1] %.

Same field does double duty.

kitem\_next\_list (item) = item [1] %.

All options collectively.

kitem\_actions (item) = item [2] %.

TRUE if keyword chain continues.

kitem\_chain\_continues (item) = (item [2]) <8, 1> %.

TRUE if a defined abbreviation.

kitem\_abbreviation (item) = (item [2]) <9, 1> %.

TRUE for commands related to .IF.

kitem\_rif (item) = item <10, 1> %.

TRUE if illegal in a footnote.

kitem\_lif (item) = item <11, 1> %.

TRUE if waiting text to be forced out.

kitem\_do\_outnj (item) = item <12, 1> %.

TRUE if command has a numerical argument.

kitem\_do\_getnum (item) = item <13, 1> %.

TRUE if illegal in a topnote.

kitem\_ilit (item) = item <14, 1> %.

FLIPRECS -- FLIP/RUNOFF record formats  
TOCHL -- HL indicator record

6 7  
15-Sep-1984 23:07:40  
15-Sep-1984 22:52:44

VAX-11 Bliss-32 V4.0-742  
\_S255SDUA28:[RUNOFF.SRC]KWITEM.REQ;1 Page 119  
(3)

..R3225 0  
..R3226 0  
..R3227 0  
..R3228 0  
..R3229 0  
..R3230 0

Minimum number of characters for a match.  
kwitem\_minimum\_match (item) = (item [2]) <0, 8> %;  
! End of KWITEM.REQ

FLIPRECS -- FLIP/RUNOFF record formats  
TOCHL -- HL indicator record

H 7  
15-Sep-1984 23:07:40  
15-Sep-1984 22:50:43

VAX-11 Bliss-32 V4.0-742  
\_S255SDUA28:[RUNOFF.SRC]DSRLIB.REQ;1 Page 120  
(2)

3231  
3232  
3233  
3234  
3235  
3236  
3237  
3238  
3239  
3240  
C C C C C  
0 0 0 0 0 0 0 0 0 0  
XIF DSRPLUS XTHEN

REQUIRE 'REQ:KWS.REQ':  
REQUIRE 'REQ:KWSCON.REQ':  
REQUIRE 'REQ:KWSTYL.REQ':  
REQUIRE 'REQ:KWTDEF.REQ':  
REQUIRE 'REQ:KWXPYP.REQ':  
XFI

! Definitions for the Attribute Keyword Structure  
! Definitions for .SEND CONTENTS keywords  
! KWSS... keyword definitions for .STYLE <elfitih>  
! KWSPDP..., KWSPDM keyword definitions for \$Sentities  
! KWXS... keyword definitions for .XP, .YP, .ENA XP

REQUIRE 'REQ:LETTER.REQ':

! Alpha testing and case changing macros

Version: 'V04-000'

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FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS

ABSTRACT:

Macros to test if a character is an appropriately flavored letter,  
and macros to convert between upper and lower case.

ENVIRONMENT: Transportable BLISS

AUTHOR: Rich Friday

CREATION DATE: 1978

MODIFIED BY:

002 KAD00002 Keith Dawson 07-Mar-1983  
Global edit of all modules. Updated module names, idents,  
copyright dates. Changed require files to BLISS library.

MACRO

upper letter (khar) = ! See if upper case letter  
(khar GEQ %C'A' AND khar LEQ %C'Z')

%,

lower letter (khar) = ! See if lower case letter  
(khar GEQ %C'a' AND khar LEQ %C'z')

%,

FLIPRECS -- FLIP/RUNOFF record formats  
TOCHL -- HL indicator record

7  
15-Sep-1984 23:07:40  
15-Sep-1984 22:52:49

VAX-11 B11ss-32 V4.0-742  
\_S255SDUA28:[RUNOFF.SRC]LETTER.REQ;1 Page 122  
(1)

MR3298 0  
MR3299 0  
R3300 0  
R3301 0  
R3302 0  
MR3303 0  
MR3304 0  
R3305 0  
R3306 0  
MR3307 0  
MR3308 0  
R3309 0  
R3310 0  
R3311 0

letter (khar) = ! See if any type of letter  
(upper\_letter (khar) OR lower\_letter (khar))  
%;  
MACRO  
upper\_case (khar) = ! Convert to upper case  
(khar + %C'A' - %C'a')  
%,  
lower\_case (khar) = ! Convert to lower case  
(khar + %C'a' - %C'A')  
%;  
!  
End of LETTER.REQ

FLIPRECS -- FLIP/RUNOFF record formats  
TOCHL -- HL indicator record

K 7  
15-Sep-1984 23:07:40  
15-Sep-1984 22:50:43

VAX-11 Bliss-32 V4.0-742  
\_S255SDUA28:[RUNOFF.SRC]DSRLIB.REQ;1 Page 123  
(2)

; 3312 0 REQUIRE 'REQ:LODEFS.REQ'; ! Literal definitions of LSTOPS operations

LODEFS.REQ Define function literals for LSTOPS.BLI

Version: 'V04-000'

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FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS

ABSTRACT:

This file contains a list of operation codes that control which special  
listing functions are processed by LSTOPS.

ENVIRONMENT: Transportable BLISS

AUTHOR: Rich Friday

CREATION DATE: 1978

MODIFIED BY:

005 REM00005 Ray Marshall 17-May-1984  
Added support for /DEC INTERNAL:OUTPUT\_LINE\_NUMBER.  
Removed LSTOPS\_BARS because it is no longer referenced.

004 KAD00004 Keith Dawson 07-Mar-1983  
Global edit of all modules. Updated module names, idents,  
copyright dates. Changed require files to BLISS library.

LITERAL

LSTOPS\_NONE = 0. !Don't do any at all.

LSTOPS\_ALL !Do all requested options.

FLIPRECS -- FLIP/RUNOFF record formats  
TOCHL -- HL indicator record

M 7  
15-Sep-1984 23:07:40  
15-Sep-1984 22:52:53

VAX-11 Bliss-32 V4.0-742  
\_S255SDUA28:[RUNOFF.SRC]LODEFS.REQ;1 Page 125  
(1)

R3370 0  
R3371 0  
R3372 0  
R3373 0  
R3374 0  
R3375 0  
R3376 0  
R3377 0  
R3378 0  
R3379 0  
R3380 0  
R3381 0

= 1^BPOSIT(BAR--) + !Change bars  
1^BPOSIT(CND--) + !/DEBUG:CONDITIONALS  
1^BPOSIT(ISQ--) + !/SEQUENCE  
1^BPOSIT(OSQ--) + !/DEC\_INTERNAL:OUTPUT\_LINE\_NUMBER  
1^BPOSIT(RIT--); !/RIGHT

! And for blank lines:

LSTOPS\_NO\_ISEQN = 1^BPOSIT(BAR--) + !Everything except /SEQUENCE  
1^BPOSIT(CND--) + !Change bars  
1^BPOSIT(RIT--); !/DEBUG:CONDITIONALS  
!/RIGHT

FLIPRECS -- FLIP/RUNOFF record formats  
TOCHL -- HL indicator record

N 7  
15-Sep-1984 23:07:40  
15-Sep-1984 22:50:43

VAX-11 Bliss-32 V4.0-742  
\_S255\$DUA28:[RUNOFF.SRC]DSRLIB.REQ;1 Page 126  
(2)

; 3382 0 REQUIRE 'REQ:MSG.REQ'; ! Macros used in error messages

Version: 'V04-000'

```
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*****
```

++ FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS

ABSTRACT:  
Defines macros used by error-message processing.

ENVIRONMENT: Transportable BLISS

AUTHOR: Rich Friday

CREATION DATE: 1978

MODIFIED BY:

002 KAD00002 Keith Dawson 07-Mar-1983  
Global edit of all modules. Updated module names, idents,  
copyright dates. Changed require files to BLISS library.

--  
MACRO

msg (l, s) =

BEGIN  
EXTERNAL ROUTINE  
filout;

%IF %LENGTH EQL 1

%THEN

filout (-1, %CHARCOUNT(l), CH\$PTR(UPLIT(l)))

%ELSE

FLIPRECS -- FLIP/RUNOFF record formats  
TOCHL -- HL indicator record

6 8  
15-Sep-1984 23:07:40  
15-Sep-1984 22:53:08

VAX-11 Bliss-32 V4.0-742  
\_S255SDUA28:[RUNOFF.SRC]MSG.REQ;1

Page 128  
(1)

```
..MR3440 0
MR3441 0
MR3442 0
MR3443 0
MR3444 0
MR3445 0
MR3446 0
MR3447 0
MR3448 0
MR3449 0
MR3450 0
MR3451 0
MR3452 0
MR3453 0
MR3454 0
MR3455 0
MR3456 0
MR3457 0
MR3458 0
MR3459 0

        filout (-1, l, s)
        %FI
        %;
        END
MACRO
    ermsg (s)=
        CHSPTR ( UPLIT (%STRING(%CHAR(%CHARCOUNT (s)),s)) )
        %;
MACRO
    bell =
        %CHAR(%O'07')
        %,
    del =
        %CHAR(%O'177')
        %;
:
        End of MSG.REQ
```

FLIPRECS -- FLIP/RUNOFF record formats  
TOCHL -- HL indicator record

<sup>8</sup>  
15-Sep-1984 23:07:40  
15-Sep-1984 22:50:43

VAX-11 Bliss-32 V4.0-742  
\_S255SDUA28:[RUNOFF.SRC]DSRLIB.REQ;1

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(2)

: 3460 0 REQUIRE 'REQ:NDXRTY.REQ'; ! .BIX-format binary file record definitions

Version: 'V04-000'

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FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS

ABSTRACT:  
This file contains literals and macros defining Index record groups  
found in either a .BIX or .BRN file.

ENVIRONMENT: Transportable BLISS

AUTHOR: J.P. Kellerman

CREATION DATE: January 1982

MODIFIED BY:

003 KAD00003 Keith Dawson 07-Mar-1983  
Global edit of all modules. Updated module names, idents,  
copyright dates. Changed require files to BLISS library.

An Index Record Group consists of an identification code stored  
in the lower half of the first fullword followed by zero or more  
fullwords which make up the rest of the record group.

LITERAL  
NEW\_SEQUENCE = 1,  
INDEX\_XTN = 2,  
INDEX\_ENTRY = 3,  
Index Record Group Identification codes are:  
New File Group.  
Page Number Transaction Record Group.  
Index Entry Record Group.

FLIPRECS -- FLIP/RUNOFF record formats  
TOCHL -- HL indicator record

F 8  
15-Sep-1984 23:07:40  
15-Sep-1984 22:53:28

VAX-11 Bliss-32 V4.0-742  
\_S255SDUA28:[RUNOFF.SRC]NDXRTY.REQ;1 Page 131  
(1)

.. R3518 0  
.. R3519 0  
.. R3520 0  
.. R3521 0

INDEX\_ATTRIBUTES = 4; ! XPLUS-YPLUS Index Entry Attributes Record Group  
! (.BRN files only).

! End of NDXRTY.REQ

FLIPRECS -- FLIP/RUNOFF record formats  
TOCHL -- HL indicator record

6 8  
15-Sep-1984 23:07:40  
15-Sep-1984 22:50:43

VAX-11 Bliss-32 V4.0-742  
\_S255SDUA28:[RUNOFF.SRC]DSRLIB.REQ;1 Page 132  
(2)

3522  
U 3523  
U 3524  
3525  
3526  
3527

0  
0  
0  
0  
0  
0

```
%IF DSRPLUS %THEN
  REQUIRE 'REQ:NDXXPL.REQ';      ! .XPLUS attribute-structure record definitions
%FI
  REQUIRE 'REQ:NMLST.REQ';      ! NMLST_...., NM_...., and NUMBER_LIST
```

Version: 'V04-000'

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FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS

ABSTRACT:  
Definitions pertaining to lists of numbers picked up by GLNM.

ENVIRONMENT: Transportable BLISS

AUTHOR: Rich Friday

CREATION DATE: 1978

MODIFIED BY:

002 KAD00002 Keith Dawson 07-Mar-1983  
Global edit of all modules. Updated module names, idents,  
copyright dates. Changed require files to BLISS library.

LITERAL  
NMLST\_COUNT = 1; !The number of numbers found.  
NMLST\_VALUE = 2; !The values of the numbers.  
NMLST\_DESCR = 3; !What the numbers looked like.

LITERAL  
NMLST\_MAXSIZE = 40;

STRUCTURE  
NUMBER\_LIST[I,Attribute;Length=NMLST\_MAXSIZE] =

R3585 0  
R3586 0  
R3587 1  
R3588 1  
R3589 1  
R3590 1  
R3591 2  
R3592 3  
R3593 4  
R3594 0  
R3595 0  
R3596 0  
R3597 0  
R3598 0  
R3599 0  
R3600 0  
R3601 0  
R3602 0  
R3603 0  
R3604 0  
R3605 0  
R3606 0  
R3607 0  
R3608 0  
R3609 0  
R3610 0

```
[%UPVAL*( 2*length + 1 )]
(If Attribute eql NMLST__COUNT
then
  NUMBER_LIST
else
  (NUMBER_LIST + %UPVAL*1 +
   (if Attribute eql NMLST__VALUE
    then %UPVAL*(I - 1)
    else %UPVAL*(I - 1 + Length) ));

! Names for NMLST_DESCRIPT things.
LITERAL
  NM_NULL      = 0,      ! No number given.
  NM_UNSIGNED  = 1,      ! Number was unsigned.
  NM_PLUS      = 2,      ! A '+' preceeded the number.
  NM_MINUS     = 3,      ! A '-' preceeded the number.
  NM_BAD       = 4;      ! The number was in error.

MACRO
  NMLST_COUNT      = NMLST [0,NMLST__COUNT]%,
  NMLST_VALUE (I)  = NMLST [I,NMLST__VALUE]%,
  NMLST_DESCR (I)  = NMLST [I,NMLST__DESCR]%;

!
End of NMLST.REQ
```

FLIPRECS -- FLIP/RUNOFF record formats  
TOCHL -- HL indicator record

15-Sep-1984 23:07:40  
15-Sep-1984 22:50:43

VAX-11 Bliss-32 V4.0-742  
\_S255SDUA28:[RUNOFF.SRC]DSRLIB.REQ;1 Page 135  
(2)

; 3611 0 REQUIRE 'REQ:NUMPRM.REQ'; ! NUM\_... values returned from GETNUM

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FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS

ABSTRACT:  
This data structure is used to save results picked up by GETNUM.

ENVIRONMENT: Transportable BLISS

AUTHOR: Rich Friday

CREATION DATE: 1978

MODIFIED BY:

002 KAD00002 Keith Dawson 07-Mar-1983  
Global edit of all modules. Updated module names, idents,  
copyright dates. Changed require files to BLISS library.

MACRO

numprm define =  
VECTOR [4]  
%,

num\_result = !Completion code returned by GETNUM.  
numprm [0] !See GETNUM.BLI for a description.

%,

num\_value =

FLIPRECS -- FLIP/RUNOFF record formats  
TOCHL -- HL indicator record

L B  
15-Sep-1984 23:07:40  
15-Sep-1984 22:53:41

VAX-11 Bliss-32 V4.0-742 Page 137  
\_S255SDUA28:[RUNOFF.SRC]NUMPRM.REQ;1 (1)

```
MR3669 0
R3670 0
R3671 0
MR3672 0
MR3673 0
R3674 0
R3675 0
MR3676 0
MR3677 0
R3678 0
R3679 0
R3680 0

      numprm [1]      !The value of the number processed.
      %,
      num_sign =
      numprm [2]      !TRUE if the number was signed.
      %,
      num_length =
      numprm [3]      !Number of digits scanned.
      %;
      !
      End of NUMPRM.REQ
```

FLIPRECS -- FLIP/RUNOFF record formats  
TOCHL -- HL indicator record

M 8  
15-Sep-1984 23:07:40  
15-Sep-1984 22:50:43

VAX-11 Bliss-32 V4.0-742  
\_\$255\$DUA28:[RUNOFF.SRC]DSRLIB.REQ;1

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(2)

: 3681 0 REQUIRE 'REQ:OPDEV.REQ'; ! OP\_DEV\_... Literals: type of output device

Version: 'V04-000'

```
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*****
```

++  
FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS

ABSTRACT:

Defines the literals used to determine what the target device for the output file is.

The field these literals are used with (OP\_DEVICE) is found in GCA. Its initial value is captured by the CLI, put into RNOMAC, and picked up later by DOOPTS to be put into GCA.

ENVIRONMENT: Transportable BLISS

AUTHOR: Ray Marshall

CREATION DATE: 7-January-1983

MODIFIED BY:

```
004  KAD00004      Keith Dawson   11-May-1983
      Made FLIP output stream-format (with <cr><lf>).

003  KAD00003      Keith Dawson   23-Mar-1983
      Added support for LN01E; put FLIP here as an output device
      type (instead of the bit GCA_FLIP).

002  KAD00002      Keith Dawson   07-Mar-1983
      Global edit of all modules. Updated module names, idsents,
      copyright dates. Changed require files to BLISS library.
```

```

R3739 0
R3740 0
R3741 0
R3742 0
R3743 0
R3744 0
R3745 0
R3746 0
R3747 0
R3748 0
R3749 0
R3750 0
R3751 0
R3752 0
MR3753 0
MR3754 0
MR3755 0
MR3756 0
MR3757 0
MR3758 0
MR3759 0
MR3760 0
MR3761 0
MR3762 0
MR3763 0
MR3764 0
MR3765 0
MR3766 0
MR3767 0
R3768 0
R3769 0

!--
$LITERAL
    op_dev_line_printer = 0,
    op_dev_first = %number($xpo$distinct),
    op_dev_diablo = $DISTINCT,
    op_dev_flip = $DISTINCT,
    op_dev_stream_output = %number($xpo$distinct),
    op_dev_vt100 = $DISTINCT,
    op_dev_ln01 = $DISTINCT,
    op_dev_ln01e = $DISTINCT,
    op_dev_last = %number($xpo$distinct);

    !Output device is a...
    ! line-printer (default).
    ! diablo-style terminal.
    ! "Electronic Book" output.
    ! VT100 terminal.
    ! LN01 laser printer.
    ! European-style LN01.

MACRO
    op_dev_write_output_line =
    !NOTE: the following code depends on the output-device values in
    !       OPDEV.REQ: specifically, on the fact that the stream-output,
    !       bare-cr-emphasis devices (LP and Diablo) have device numbers
    !       smaller than those of the escape-sequence-emphasis devices (LN01,
    !       VT100). It is coded this way in the interest of efficiency: only
    !       one fetch and compare is needed.
    BEGIN
    IF .gca_op_dev LEQ op_dev_stream_output
    THEN
        clh (clh_write_out)          ! LP and Diablo (STREAM) devices.
    ELSE
        clh (clh_out_nocrlf)        ! LN01 and VT100 (non-STREAM) devices.
    END
    %;
    !
    !       End of OPDEV.REQ

```

FLIPRECS -- FLIP/RUNOFF record formats  
TOCHL -- HL indicator record

6 9  
15-Sep-1984 23:07:40  
15-Sep-1984 22:50:43

VAX-11 BLISS-32 V4.0-742  
\_S255SDUA28:[RUNOFF.SRC]DSRLIB.REQ;1

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(2)

: 3770 0 REQUIRE 'REQ:OUTOPT.REQ': ! OUTOPT\_... output control vector elements

Version: 'V04-000'

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++  
FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS

ABSTRACT:  
Options specifying final output generation.

ENVIRONMENT: Transportable BLISS

AUTHOR: Rich Friday

CREATION DATE: 1978

MODIFIED BY:

003 KAD00003 Keith Dawson 07-Mar-1983  
Global edit of all modules. Updated module names, idents,  
copyright dates. Changed require files to BLISS library.

--  
MACRO

outopt_und_char	= outopt[0]	! Character to be used for underlining.
outopt_und_nosp	= outopt[1]	! True if the underlining character is non-spacing.
outopt_und_sep	= outopt[2]	! True if underlining is to be done by ! putting OUTOPT_UND_CHAR on the next line.
outopt_back	= outopt[3]	! True if the backspace character is to be used.

FLIPRECS -- FLIP/RUNOFF record formats  
TOCHL -- HL indicator record

E 9  
15-Sep-1984 23:07:40  
15-Sep-1984 22:53:47

VAX-11 Bliss-32 V4.0-742  
\_S255SDUA28:[RUNOFF.SRC]OUTOPT.REQ;1

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(1)

```
MR3828 0
R3829 0
R3830 0
MR3831 0
R3832 0
R3833 0
R3834 0
R3835 0
R3836 0
R3837 0
MR3838 0
MR3839 0
R3840 0
R3841 0
R3842 0

        outopt_over      = outopt[4]      ! TRUE if should do special functions
        %;                ! by overprinting the same line.

        outopt_bldn      = outopt[5]      ! Amount of overstriking to be done when bolding.
        %;

LITERAL
        outopt_size = 6;

MACRO
        outopt_define =
        VECTOR [outopt_size]
        %;

!
        End of OUTOPT.REQ
```

FLIPRECS -- FLIP/RUNOFF record formats  
TOCHL -- HL indicator record

F 9  
15-Sep-1984 23:07:40  
15-Sep-1984 22:50:43

VAX-11 Bliss-32 V4.0-742  
\_S255SDUA28:[RUNOFF.SRC]DSRLIB.REQ;1

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(2)

: 3843 0 REQUIRE 'REQ:PASS.REQ'; ! PASS\_...., EMPH\_... definitions for final output

Version: 'V04-000'

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FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS

ABSTRACT:

Literals for counting output passes in LOUT1.

ENVIRONMENT: Transportable BLISS

AUTHOR: Keith Dawson

CREATION DATE: March 1983

MODIFIED BY:

001 KAD00001 Keith Dawson 22-Mar-1983

If no emphasis is present, the line is put out in 1 pass. This is also the  
case if we are generating VT100 output or FLIP output, or if the user said  
/BACKSPACE. If none of these cases applies, then multiple passes are needed  
to generate the built-up output line.

If any emphasis is present, the emphasized copies of the line are put out  
first; the "real," entire line is generated last. In this case, pass 1  
serves to set up the later passes, but does not produce output.

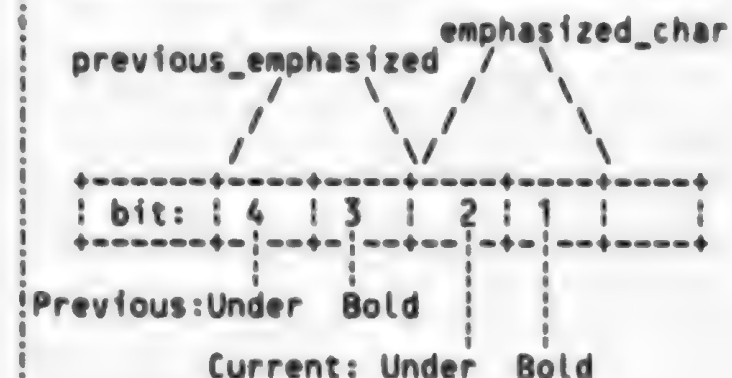
pass 1 - calculate	pass 2 - bold
pass 3 - underline	pass 4 - bold-underline
pass 5 - overstrike	pass 6 - bold-overstrike

pass 7 - output line, if any emphasis was present

# LITERAL

```
pass_setup = 1,
pass_bold = 2,
pass_underline=3,
pass_bold_underline=4,
pass_overstrike = 5,
pass_bold_overstrike = 6,
pass_real_text = 7;
```

## Arrangement of bits in EMPHASIS\_BITS:



## MACRO

```
emph_current_bold = ! TRUE if this character is bolded.
emphasis_bits<1,1>
%,
emph_current_underline = ! TRUE if this character is underlined.
emphasis_bits<2,1>
%,
emph_current_emphasized = ! Both bolding and underlining together.
emphasis_bits<1,2>
%,
emph_previous_bold = ! TRUE if last character output was bolded.
emphasis_bits<3,1>
%,
emph_previous_underline = ! TRUE if last character output was underlined.
emphasis_bits<4,1>
%,
emph_previous_emphasized = ! Both bits together.
emphasis_bits<3,2>
%;
```

End of PASS.REQ

FLIPRECS -- FLIP/RUNOFF record formats  
TOCHL -- HL indicator record

1 9  
15-Sep-1984 23:07:40  
15-Sep-1984 22:50:43

VAX-11 Bliss-32 V4.0-742 Page 147  
\_S255SDUA28:[RUNOFF.SRC]DSRLIB.REQ;1 (2)

; 3952 0 REQUIRE 'REQ:PDT.REQ'; ! PDT\_... paragraph definition items

Version: 'V04-000'

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FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS

ABSTRACT:  
Items that define a paragraph.

ENVIRONMENT: Transportable BLISS

AUTHOR: Rich Friday

CREATION DATE: 1978

MODIFIED BY:

002 KAD00002 Keith Dawson 07-Mar-1983  
Global edit of all modules. Updated module names, idents,  
copyright dates. Changed require files to BLISS library.

MACRO

pdt\_indent = pdt [00] ! Add this to .SCA\_RM at start of a paragraph.  
pdt\_skip = pdt [01] ! Skip this many lines before starting.  
pdt\_tp = pdt [02] ! Do a test page before starting a paragraph.

LITERAL

pdt\_size = 03;

FLIPRECS -- FLIP/RUNOFF record formats  
TOCHL -- HL indicator record

K 9  
15-Sep-1984 23:07:40  
15-Sep-1984 22:53:57

VAX-11 B11ss-32 V4.0-742  
\_S255SDUA28:[RUNOFF.SRC]PDT.REQ;1

Page 149  
(1)

.. R4010 0  
.. R4011 00  
.. MR4012 00  
.. MR4013 00  
.. R4014 00  
.. R4015 00  
.. R4016 0

MACRO  
pdt\_definition =  
VECTOR [pdt\_size]  
%;

! End of PDT.REQ

FLIPRECS -- FLIP/RUNOFF record formats  
TOCHL -- HL indicator record

L 9  
15-Sep-1984 23:07:40  
15-Sep-1984 22:50:43

VAX-11 Bliss-32 V4.0-742  
\_S255\$DUA28:[RUNOFF.SRC]DSRLIB.REQ;1 Page 150  
(2)

: 4017 0 REQUIRE 'REQ:PHDEF.REQ'; ! PHAN\_... macros & literal

PHDEF.REQ Definitions having to do with the page handler

Version: 'V04-000'

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FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS

ABSTRACT:

This require file defines the structure used to control page formatting.  
The basic structure name is PHAN. A macro herein (PHAN\_DEFINITION) is used  
when defining the structure as an external. Then, the other macros defined  
by this require file are used to access the PHAN structure.

This require file also defines any literals related to page formatting.

\*\*\*\*\* NOTE \*\*\*\*\*

The items PHAN\_LCHAR and PHAN\_RCHAR are not yet supported by any routines.

ENVIRONMENT: Transportable BLISS

AUTHOR: Rich Friday

CREATION DATE: 16-October-1980

MODIFIED BY:

007 REM00007 Ray Marshall 16-Nov-1983  
For the fields that need .PHAN[##] references, also added macros  
without the preceding dot so SAVRES can load them. These new  
fields have similar names but with "\_f\_" within them.

006 KFA00006 Ken Alden 16-Mar-1983  
Extended SAVE/RESTORE to DSR.



FLIPRECS -- FLIP/RUNOFF record formats  
TOCHL -- HL indicator record

B 10  
15-Sep-1984 23:07:40  
15-Sep-1984 22:50:43

VAX-11 Bliss-32 V4.0-742  
\_S255SDUA28:[RUNOFF.SRC]DSRLIB.REQ;1 Page 153  
(2)

; 4122 0 REQUIRE 'REQ:RNOMAC.REQ'; ! RNOS... command line table items

Version: 'V04-000'

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FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS

ABSTRACT:  
RUNOFF Command Information. Initialized by the command line interface  
and picked up for distribution by DOOPTS.

ENVIRONMENT: Transportable BLISS

AUTHOR: Rich Friday

CREATION DATE: 1978

MODIFIED BY:

012	REM00012	Ray Marshall	5-December-1983
	Added RNO\$V_LN01_LOAD to indicate that one wishes to load fonts before printing this file on an LN01.		
011	REM00011	Ray Marshall	13-Sep-1983
	Added bit RNO\$V_LN01_HEADER to support disabling the font control header information from being put into an .LN1 output file.		
010	KAD00010	Keith Dawson	2-Jun-1983
	Added bits RNO\$V_S_RIGHT and RNO\$V_S_DOWN to tell if the qualifiers were explicitly given.		
009	KAD00009	Keith Dawson	22-Mar-1983
	Renamed LN01 italic/underline and portrait/landscape bits.		

in order to reflect the default values.  
Got rid of RNO\$V\_FLIP bit, in favor of (.gca\_op\_dev  
EQL op\_dev\_flip).

008 KAD00008 Keith Dawson 07-Mar-1983  
Global edit of all modules. Updated module names, idents,  
copyright dates. Changed require files to BLISS library.

\$FIELD \$rno\$cmd\_fields = SET

! File specification string descriptors.

RNO\$T\_INPUT = [\$DESCRIPTOR(FIXED)] , ! Input  
RNO\$T\_OUTPUT = [\$DESCRIPTOR(FIXED)] , ! Output  
RNO\$T\_INTERMEDIATE = [\$DESCRIPTOR(FIXED)] , ! Binary intermediate .BRN type file  
RNO\$T\_DROP\_REC = [\$DESCRIPTOR(FIXED)] , ! Drop-record file

! Miscellaneous other string descriptors.

rno\$t\_program\_name = [\$DESCRIPTOR(FIXED)] , ! Name of program  
rno\$t\_program\_filename = [\$DESCRIPTOR(FIXED)] , ! Filename of program  
rno\$t\_pages = [\$DESCRIPTOR(FIXED)] , ! Page range string descriptor:  
\$OVERLAY( \$SUB\_FIELD( rno\$t\_pages, STR\$H\_LENGTH ) )  
rno\$h\_pages = [\$BYTES(2)] , ! length of page range string  
\$OVERLAY( \$SUB\_FIELD( rno\$t\_pages, STR\$a\_POINTER ) )  
rno\$a\_pages = [\$POINTER] , ! pointer to page range string  
\$CONTINUE

rno\$t\_variant = [\$DESCRIPTOR(FIXED)] , ! Variant string descriptor:  
\$OVERLAY( \$SUB\_FIELD( rno\$t\_variant, STR\$H\_LENGTH ) )  
rno\$h\_variant = [\$BYTES(2)] , ! length of variant string  
\$OVERLAY( \$SUB\_FIELD( rno\$t\_variant, STR\$a\_POINTER ) )  
rno\$a\_variant = [\$POINTER] , ! pointer to variant string  
\$CONTINUE

rno\$a\_datetime = [\$BYTES(12)] , ! System date and time  
\$OVERLAY( rno\$a\_datetime )  
rno\$h\_year = [\$BYTES(2)] ,  
rno\$h\_month = [\$BYTES(2)] ,  
rno\$h\_monthday = [\$BYTES(2)] ,  
rno\$h\_hours = [\$BYTES(2)] ,  
rno\$h\_minutes = [\$BYTES(2)] ,  
rno\$h\_seconds = [\$BYTES(2)] ,  
\$CONTINUE

! Three words of switch option bits:

rno\$y\_options = [\$BYTES(8)] , ! Command option indicators:  
\$OVERLAY( rno\$y\_options )  
rno\$y\_option1 = [\$BYTES(2)] ,  
rno\$y\_option2 = [\$BYTES(2)] ,  
rno\$y\_option3 = [\$BYTES(2)] ,  
rno\$y\_option4 = [\$BYTES(2)] ,

```

R4237 0      $OVERLAY ( rno$V_option1 )
R4238 0
R4239 0      rno$V_2_automatic = [$BITS(2)]      ! Carries state of /AUTOMATIC to DOOPTS
R4240 0      $OVERLAY ( rno$V_2_automatic )
R4241 0      rno$V_automatic = [$BIT] ;           ! execute multiple passes and utilities as needed
R4242 0      rno$V_s_automatic = [$BIT] ;         ! /AUTOMATIC explicitly specified
R4243 0
R4244 0      rno$V_2_backspace = [$BITS(2)]      ! backspace on same line
R4245 0      $OVERLAY ( rno$V_2_backspace )
R4246 0      rno$V_backspace = [$BIT] ;           ! backspace on same line
R4247 0      rno$V_s_backspace = [$BIT] ;         ! /BACKSPACE explicitly specified
R4248 0
R4249 0      rno$V_2_change = [$BITS(2)] ;        ! change bars requested
R4250 0      $OVERLAY ( rno$V_2_change )
R4251 0      rno$V_change = [$BIT] ;              ! change bars allowed
R4252 0      rno$V_s_change = [$BIT] ;            ! /CHANGE explicitly specified
R4253 0
R4254 0      rno$V_chng_char = [$BIT] ;           ! change bar character specified (see below)
R4255 0
R4256 0      rno$V_2_cross_reference = [$BITS(2)] ! Carries state of /CROSSREFERENCE to DOOPTS
R4257 0      $OVERLAY ( rno$V_2_cross_reference )
R4258 0      rno$V_cross_reference = [$BIT] ;      ! translate cross references
R4259 0      rno$V_s_cross_reference = [$BIT] ;    ! /CROSS_REFERENCE explicitly specified
R4260 0
R4261 0      rno$V_deb_cond = [$BIT] ;             ! go through all paths of .Ifs and output draft flags
R4262 0      rno$V_deb_cont = [$BIT] ;             ! echo toc entries in output file
R4263 0      rno$V_deb_cros = [$BIT] ;             ! echo .REFs & $FOOs in output file
R4264 0      rno$V_deb_files = [$BIT] ;            ! put file names in the output.
R4265 0      rno$V_deb_index = [$BIT] ;            ! echo index entries in output file
R4266 0      rno$V_deb_save = [$BIT] ;             ! echo .SAVEs & .RESS in output file
R4267 0
R4268 0      (1 free bit in OPTION1)
R4269 0
R4270 0      $OVERLAY ( rno$V_option2 )
R4271 0
R4272 0      rno$V_2_intermediate = [$BITS(2)] ;   ! Carries state of /INTERMEDIATE to DOOPTS
R4273 0      $OVERLAY ( rno$V_2_intermediate )
R4274 0      rno$V_intermediate = [$BIT] ;          ! a .BRN type file will be generated
R4275 0      rno$V_s_intermediate = [$BIT] ;        ! /INTERMEDIATE explicitly specified
R4276 0
R4277 0      rno$V_2_log = [$BITS(2)] ;            ! print final statistics
R4278 0      $OVERLAY ( rno$V_2_log )
R4279 0      rno$V_log = [$BIT] ;                  ! print final statistics
R4280 0      rno$V_s_log = [$BIT] ;                ! /LOG explicitly specified
R4281 0
R4282 0      rno$V_msg_out = [$BIT] ;              ! put DSR messages in the output file
R4283 0      rno$V_msg_user = [$BIT] ;             ! send DSR messages to the user
R4284 0
R4285 0      rno$V_4_out_format = [$BITS(4)] ;      ! defines output formats
R4286 0
R4287 0      rno$V_2_output = [$BITS(2)] ;          ! output file requested
R4288 0      $OVERLAY ( rno$V_2_output )
R4289 0      rno$V_output = [$BIT] ;               ! output file requested
R4290 0      rno$V_s_output = [$BIT] ;             ! /OUTPUT explicitly specified
R4291 0
R4292 0      rno$V_2_overprint = [$BITS(2)] ;       ! overprint on same line
R4293 0      $OVERLAY ( rno$V_2_overprint )

```

R4294 0  
R4295 00  
R4296 000  
R4297 0000  
R4298 00000  
R4299 000000  
R4300 0000000  
R4301 00000000  
R4302 000000000  
R4303 0000000000  
R4304 00000000000  
R4305 000000000000  
R4306 0000000000000  
R4307 00000000000000  
R4308 000000000000000  
R4309 0000000000000000  
R4310 00000000000000000  
R4311 000000000000000000  
R4312 0000000000000000000  
R4313 00000000000000000000  
R4314 000000000000000000000  
R4315 0000000000000000000000  
R4316 00000000000000000000000  
R4317 000000000000000000000000  
R4318 0000000000000000000000000  
R4319 00000000000000000000000000  
R4320 000000000000000000000000000  
R4321 0000000000000000000000000000  
R4322 00000000000000000000000000000  
R4323 000000000000000000000000000000  
R4324 0000000000000000000000000000000  
R4325 00000000000000000000000000000000  
R4326 000000000000000000000000000000000  
R4327 0000000000000000000000000000000000  
R4328 00000000000000000000000000000000000  
R4329 000000000000000000000000000000000000  
R4330 0000000000000000000000000000000000000  
R4331 00000000000000000000000000000000000000  
R4332 000000000000000000000000000000000000000  
R4333 00  
R4334 000  
R4335 00  
R4336 000  
R4337 00  
R4338 000  
R4339 00  
R4340 000  
R4341 00  
R4342 000  
R4343 00  
R4344 000  
R4345 00  
R4346 000  
R4347 00  
R4348 000  
R4349 00  
R4350 0

rno\$y\_overprint = [\$BIT] ;  
rno\$y\_s\_overprint = [\$BIT] ;

! overprint on same line  
! /OVERPRINT explicitly specified

rno\$y\_2\_pause = [\$BITS(2)] ;  
\$OVERLAY ( rno\$y\_2\_pause )  
rno\$y\_pause = [\$BIT] ;  
rno\$y\_s\_pause = [\$BIT] ;

! pause at page boundary requested  
! pause at page boundary requested  
! /PAUSE explicitly specified

! (NO free bits in OPTION2)

\$OVERLAY ( rno\$y\_option3 )

rno\$y\_quick = [\$BIT] ;

! do quick processing (for contents, index)

rno\$y\_2\_sequence = [\$BITS(2)] ;  
\$OVERLAY ( rno\$y\_2\_sequence )  
rno\$y\_sequence = [\$BIT] ;  
rno\$y\_s\_sequence = [\$BIT] ;

! output sequence numbers requested  
! output sequence numbers requested  
! /SEQUENCE explicitly specified

rno\$y\_2\_simulate = [\$BITS(2)] ;  
\$OVERLAY ( rno\$y\_2\_simulate )  
rno\$y\_simulate = [\$BIT] ;  
rno\$y\_s\_simulate = [\$BIT] ;

! simulate printer form feeds  
! simulate printer form feeds  
! /SIMULATE explicitly specified

rno\$y\_2\_underline = [\$BITS(2)] ;  
\$OVERLAY ( rno\$y\_2\_underline )  
rno\$y\_underline = [\$BIT] ;  
rno\$y\_s\_underline = [\$BIT] ;

! underlining requested  
! underlining requested: (default)  
! /UNDERLINE explicitly specified

rno\$y\_2\_und\_separ = [\$BITS(2)] ;  
\$OVERLAY ( rno\$y\_2\_und\_separ )  
rno\$y\_und\_separ = [\$BIT] ;  
rno\$y\_s\_und\_separ = [\$BIT] ;

! underlining on separate line  
! underlining on separate line  
! /SEPARATE\_UNDERLINE explicitly specified

rno\$y\_2\_und\_nosp = [\$BITS(2)] ;  
\$OVERLAY ( rno\$y\_2\_und\_nosp )  
rno\$y\_und\_nosp = [\$BIT] ;  
rno\$y\_s\_und\_nosp = [\$BIT] ;

! underlining non-spacing inline  
! non-spacing inline  
! /NONSPACING explicitly specified

rno\$y\_und\_char = [\$BIT] ;

! character specified (see below)

! (4 free bits in OPTION3)

\$OVERLAY ( rno\$y\_option4 )

rno\$y\_ln01\_ital\_under = [\$BIT] ;  
rno\$y\_ln01\_port\_land = [\$BIT] ;  
rno\$y\_ln01\_header = [\$BIT] ;  
rno\$y\_ln01\_load = [\$BIT] ;

! Options for LN01 output:  
! set = italics, clear = underlining  
! set = portrait, clear = landscape  
! set = if header wanted in O/P file  
! set = loading of fonts is desired

rno\$y\_s\_down = [\$BIT] ;  
rno\$y\_s\_right = [\$BIT] ;

! /DOWN explicitly specified  
! /RIGHT explicitly specified

! (11 free bits in OPTION4)

\$CONTINUE

```

R4351 0
R4352 0
R4353 0
R4354 0
R4355 0
R4356 0
R4357 0
R4358 0
R4359 0
R4360 0
R4361 0
R4362 0
R4363 0
R4364 0
R4365 0
R4366 0
MR4367 0
MR4368 0
R4369 0
R4370 0
R4371 0

      rno$c_change      = [ $BYTE ] ;
      rno$c_underline   = [ $BYTE ] ;

      rno$h_bold         = [ $SHORT_INTEGER ] ;
      rno$h_dbg1         = [ $SHORT_INTEGER ] ;
      rno$h_dbg2         = [ $SHORT_INTEGER ] ;
      rno$h_down         = [ $SHORT_INTEGER ] ;
      rno$h_right        = [ $SHORT_INTEGER ] ;
      rno$h_form_size    = [ $SHORT_INTEGER ] ;

      ! Change bar character (RNO$V CHNG CHAR set)
      ! Underline character (RNO$V_UND_CHAR set)

      ! Bolding overprint count
      ! Debug flags, 1st word
      ! Debug flags, 2nd word
      ! Down shift count (number of lines)
      ! Right shift count (number of characters)
      ! Form size (number of lines)

      TES;

      LITERAL rno$k_cmd_len = $FIELD_SET_SIZE ;
      ! Length of RUNOFF command block

      MACRO
      $rno_cmd =
      BLOCK [ rno$k_cmd_len ] FIELD ( $rno$cmd_fields )
      %;

      !
      End of RNOMAC.REQ

```

FLIPRECS -- FLIP/RUNOFF record formats  
TOCHL -- HL indicator record

M 10  
15-Sep-1984 23:07:40  
15-Sep-1984 22:50:43

VAX-11 B11gs-32 V4.0-742  
\_S255SDUA28:[RUNOFF.SRC]DSRLIB.REQ;1  
Page 159  
(2)

; 4372 0 REQUIRE 'REQ:RUNHAN.REQ'; ! H\_... directive literals

RUNHAN.REQ - Literal values of each directive.

Version: 'V04-000'

```
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```

++  
FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS

ABSTRACT:

This require file defines the literals used to reference the  
various DSR commands.

ENVIRONMENT: Transportable BLISS

AUTHOR: Rich Friday      CREATION DATE: 1978

R4413 0  
R4414 0  
R4415 0  
R4416 0  
R4417 0  
R4418 0  
R4419 0  
R4420 0  
R4421 0  
R4422 0  
R4423 0  
R4424 0  
R4425 0  
R4426 0  
R4427 0  
R4428 0  
R4429 0  
R4430 0  
R4431 0  
R4432 0  
R4433 0  
R4434 0  
R4435 0

MODIFIED BY:

014 KFA00014 Ken Alden 04-Aug-1983  
Added H\_DISABLE\_APPEN, H\_PAGE\_NOW.  
013 KFA00013 Ken Alden 03-Aug-1983  
Added directive H\_ENABLE\_CHAPTER, H\_DISABLE\_CHAPTER (dsrplus).  
012 RER00012 Ron Randall 17-Mar-1983  
Made topnote-related text consistent with other modules.  
011 KFA00011 Ken Alden 16-Mar-1983  
Made SAVE/RESTORE visible to DSR.  
010 KAD00010 Keith Dawson 07-Mar-1983  
Global edit of all modules. Updated module names, idents,  
copyright dates. Changed require files to BLISS library.  
Made handler codes numerically ascending again through  
their alphabetical order, including both DSR-only and  
DSRPLUS commands. The DSRPLUS commands will still be  
reported as errors for DSR.

FLIPRECS -- FLIP/RUNOFF record formats  
TOCHL -- HL indicator record

K 10  
15-Sep-1984 23:07:40  
15-Sep-1984 22:54:15

VAX-11 Bliss-32 V4.0-742  
\_S255\$DUA28:[RUNOFF.SRC]RUNHAN.REQ;1 Page 162  
(3)

```

R4436 0 LITERAL H_APPENDIX = 1:
R4437 0 LITERAL H_AUTOJUSTIFY = 2:
R4438 0 LITERAL H_AUTOPARAGRAPH = 3:
R4439 0 LITERAL H_AUTOSUBTITLE = 4:
R4440 0 LITERAL H_AUTOTABLE = 5:
R4441 0
UR4442 0 XIF DSRPLUS XTHEN
UR4443 0 LITERAL H_AUTOTITLE = 6:
R4444 0 XFI
R4445 0
R4446 0 LITERAL H_BEGIN_BAR = 7:
R4447 0
UR4448 0 XIF DSRPLUS XTHEN
UR4449 0 LITERAL H_BEGIN_TOPNOTE = 8:
UR4450 0 LITERAL H_BEGIN_PASSTHR = 9:
R4451 0 XFI
R4452 0
R4453 0 LITERAL H_BLANK = 10:
R4454 0 LITERAL H_BREAK = 11:
R4455 0 LITERAL H_CENTER = 12:
R4456 0 LITERAL H_CHAPTER = 13:
R4457 0 LITERAL H_COMMENT = 14:
R4458 0 LITERAL H_CONTROL_CHARA = 15:
R4459 0
UR4460 0 XIF DSRPLUS XTHEN
UR4461 0 LITERAL H_REFERENCEPOIN = 16:
R4462 0 XFI
R4463 0
R4464 0 LITERAL H_DATE = 17:
R4465 0
UR4466 0 XIF DSRPLUS XTHEN
UR4467 0 LITERAL H_DISABLE_APPEN = 214:
R4468 0 XFI
R4469 0
R4470 0 LITERAL H_DISABLE_BAR = 18:
R4471 0 LITERAL H_DISABLE_BOLD = 19:
R4472 0
UR4473 0 XIF DSRPLUS XTHEN
UR4474 0 LITERAL H_DISABLE_CHAPT = 212;! Same as H_no_chapter
R4475 0 XFI
R4476 0
R4477 0 LITERAL H_DISABLE_HYPHE = 20:
R4478 0 LITERAL H_DISABLE_INDEX = 21:
R4479 0 LITERAL H_DISABLE_OVERS = 22:
R4480 0 LITERAL H_DISABLE_TOC = 23:
R4481 0 LITERAL H_DISABLE_UNDER = 24:
R4482 0
UR4483 0 XIF DSRPLUS XTHEN
UR4484 0 LITERAL H_DISABLE_XPLUS = 25:
R4485 0 XFI
R4486 0
R4487 0 LITERAL H_DISPLAY_APPEN = 26:
R4488 0 LITERAL H_DISPLAY_CHAPT = 27:
R4489 0
UR4490 0 XIF DSRPLUS XTHEN
UR4491 0 LITERAL H_DISPLAY_COUNT = 28:
R4492 0 XFI

```

```

R4493 0
R4494 00 LITERAL H_DISPLAY_DAY = 29:
R4495 00 LITERAL H_DISPLAY_ELEME = 30:
R4496 00
UR4497 00 %IF DSRPLUS %THEN
UR4498 00 LITERAL H_DISPLAY_EXAMP = 31:
UR4499 00 LITERAL H_DISPLAY_FIGUR = 32:
UR4500 00 LITERAL H_DISPLAY_HEAD = 33:
R4501 00 %FI
R4502 00
R4503 00 LITERAL H_DISPLAY_HOURS = 34:
R4504 00 LITERAL H_DISPLAY_LEVEL = 35:
R4505 00 LITERAL H_DISPLAY_MINUT = 36:
R4506 00 LITERAL H_DISPLAY_MONTH = 37:
R4507 00 LITERAL H_DISPLAY_NUMBE = 38:
R4508 00 LITERAL H_DISPLAY_SECON = 39:
R4509 00 LITERAL H_DISPLAY_SUBPA = 40:
R4510 00
UR4511 00 %IF DSRPLUS %THEN
UR4512 00 LITERAL H_DISPLAY_TABLE = 41:
R4513 00 %FI
R4514 00
R4515 00 LITERAL H_DISPLAY_YEAR = 42:
R4516 00 LITERAL H_DO_INDEX = 43:
R4517 00
UR4518 00 %IF DSRPLUS %THEN
UR4519 00 LITERAL H_DO_CONTENTS = 44:
UR4520 00 LITERAL H_DO_TABLE = 45:
R4521 00 %FI
R4522 00
R4523 00 LITERAL H_ELSE = 46:
R4524 00
UR4525 00 %IF DSRPLUS %THEN
UR4526 00 LITERAL H_ENABLE_APPEND = 213:
R4527 00 %FI
R4528 00
R4529 00 LITERAL H_ENABLE_BAR = 47:
R4530 00 LITERAL H_ENABLE_BOLDIN = 48:
R4531 00
UR4532 00 %IF DSRPLUS %THEN
UR4533 00 LITERAL H_ENABLE_CHAPTE = 211:
R4534 00 %FI
R4535 00
R4536 00 LITERAL H_ENABLE_HYPHEN = 49:
R4537 00 LITERAL H_ENABLE_INDEXI = 50:
R4538 00 LITERAL H_ENABLE_OVERST = 51:
R4539 00
UR4540 00 %IF DSRPLUS %THEN
UR4541 00 LITERAL H_ENABLE_XPLUS = 52:
R4542 00 %FI
R4543 00
R4544 00 LITERAL H_ENABLE_TOC = 53:
R4545 00 LITERAL H_ENABLE_UNDERL = 54:
R4546 00 LITERAL H_ENDIF = 55:
R4547 00 LITERAL H_END_BAR = 56:
R4548 00 LITERAL H_END_FOOTNOTE = 57:
R4549 0

```

FLIPRECS -- FLIP/RUNOFF record formats  
TOCHL -- HL indicator record

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```

..UR4550 0      %IF DSRPLUS %THEN
UR4551 00      LITERAL H_END_TOPNOTE =      58;
R4552 00      %FI
R4553 00
R4554 00      LITERAL H_END_LIST =      59;
R4555 00      LITERAL H_END_LITERAL =      60;
R4556 00      LITERAL H_END_NOTE =      61;
R4557 00
UR4558 00      %IF DSRPLUS %THEN
UR4559 00      LITERAL H_END_PASSTHROU =      62;
R4560 00      %FI
R4561 00
R4562 00      LITERAL H_END_SUBPAGE =      63;
R4563 00      LITERAL H_ENTRY =      64;
R4564 00      LITERAL H_FIGURE =      65;
R4565 00      LITERAL H_FIGURE_DEFERR =      66;
R4566 00      LITERAL H_FILL =      67;
R4567 00      LITERAL H_FIRST_TITLE =      68;
R4568 00
UR4569 00      %IF DSRPLUS %THEN
UR4570 00      LITERAL H_FIRST_TITLE_A =      69;
R4571 00      %FI
R4572 00
R4573 00      LITERAL H_FLAGS_ALL =      70;
R4574 00      LITERAL H_FLAGS_BOLD =      71;
R4575 00      LITERAL H_FLAGS_BREAK =      72;
R4576 00      LITERAL H_FLAGS_CAPITAL =      73;
R4577 00      LITERAL H_FLAGS_COMMENT =      74;
R4578 00      LITERAL H_FLAGS_CONTROL =      75;
R4579 00      LITERAL H_FLAGS_ENDFOOT =      76;
R4580 00      LITERAL H_FLAGS_HYPHENA =      77;
R4581 00      LITERAL H_FLAGS_INDEX =      78;
R4582 00      LITERAL H_FLAGS_LOWERCA =      79;
R4583 00      LITERAL H_FLAGS_OVERSTR =      80;
R4584 00
UR4585 00      %IF DSRPLUS %THEN
UR4586 00      LITERAL H_FLAGS_NOPERMU =      81;
UR4587 00      LITERAL H_FLAGS_PASSTHR =      82;
R4588 00      %FI
R4589 00
R4590 00      LITERAL H_FLAGS_PERIOD =      83;
R4591 00      LITERAL H_FLAGS_QUOTE =      84;
R4592 00      LITERAL H_FLAGS_SPACE =      85;
R4593 00      LITERAL H_FLAGS_SUBINDE =      86;
R4594 00      LITERAL H_FLAGS_SUBSTIT =      87;
R4595 00      LITERAL H_FLAGS_UNDERLI =      88;
R4596 00      LITERAL H_FLAGS_UPPERCA =      89;
R4597 00      LITERAL H_FOOTNOTE =      90;
R4598 00      LITERAL H_HEADERS_LOWER =      91;
R4599 00      LITERAL H_HEADERS_MIXED =      92;
R4600 00      LITERAL H_HEADERS_ON =      93;
R4601 00      LITERAL H_HEADERS_UPPER =      94;
R4602 00
UR4603 00      %IF DSRPLUS %THEN
UR4604 00      LITERAL H_HEADER_EXAMPL =      95;
UR4605 00      LITERAL H_HEADER_FIGURE =      96;
R4606 00      %FI

```

FLIPRECS -- FLIP/RUNOFF record formats  
TOCHL -- HL indicator record

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```
.. R4607 0
.. R4608 00 LITERAL H_HEADER_LEVEL = 97;
.. R4609 00
UR4610 00 %IF DSRPLUS %THEN
UR4611 00 LITERAL H_HEADER_TABLE = 98;
UR4612 00 LITERAL H_TOPNOTE_ON = 99;
.. R4613 00 %FI
.. R4614 00
.. R4615 00 LITERAL H_HYPHENATION = 100;
.. R4616 00 LITERAL H_IF = 101;
.. R4617 00 LITERAL H_IFNOT = 102;
.. R4618 00 LITERAL H_INDENT = 103;
.. R4619 00 LITERAL H_INDEX = 104;
.. R4620 00 LITERAL H_JUSTIFY = 105;
.. R4621 00 LITERAL H_KEEP = 106;
.. R4622 00 LITERAL H_LAYOUT = 107;
.. R4623 00 LITERAL H_LEF = 108;
.. R4624 00 LITERAL H_LEF1_MARGIN = 109;
.. R4625 00 LITERAL H_LIST = 110;
.. R4626 00 LITERAL H_LIST_ELEMENT = 111;
.. R4627 00 LITERAL H_LITERAL = 112;
.. R4628 00 LITERAL H_LOWER_CASE = 113;
.. R4629 00 LITERAL H_NOTE = 114;
.. R4630 00 LITERAL H_NO_AUTOJUSTIF = 115;
.. R4631 00 LITERAL H_NO_AUTOPARAGR = 116;
.. R4632 00 LITERAL H_NO_AUTOSUBTIT = 117;
.. R4633 00 LITERAL H_NO_AUTOTABLE = 118;
.. R4634 00
UR4635 00 %IF DSRPLUS %THEN
UR4636 00 LITERAL H_NO_AUTOTITLE = 119;
UR4637 00 LITERAL H_NO_CHAPTER = 120;
.. R4638 00 %FI
.. R4639 00
.. R4640 00 LITERAL H_NO_CONTROL_CH = 121;
.. R4641 00 LITERAL H_NO_DATE = 122;
.. R4642 00 LITERAL H_NO_FILL = 123;
.. R4643 00 LITERAL H_NO_FLAGS_ALL = 124;
.. R4644 00 LITERAL H_NO_FLAGS_BOLD = 125;
.. R4645 00 LITERAL H_NO_FLAGS_BREA = 126;
.. R4646 00 LITERAL H_NO_FLAGS_CAPI = 127;
.. R4647 00 LITERAL H_NO_FLAGS_COMM = 128;
.. R4648 00 LITERAL H_NO_FLAGS_CONT = 129;
.. R4649 00 LITERAL H_NO_FLAGS_ENDF = 130;
.. R4650 00 LITERAL H_NO_FLAGS_HYPH = 131;
.. R4651 00 LITERAL H_NO_FLAGS_INDE = 132;
.. R4652 00 LITERAL H_NO_FLAGS_LOWE = 133;
.. R4653 00 LITERAL H_NO_FLAGS_OVER = 134;
.. R4654 00
UR4655 00 %IF DSRPLUS %THEN
UR4656 00 LITERAL H_NO_FLAGS_NOPE = 135;
UR4657 00 LITERAL H_NO_FLAGS_PASS = 136;
.. R4658 00 %FI
.. R4659 00
.. R4660 00 LITERAL H_NO_FLAGS_PERI = 137;
.. R4661 00 LITERAL H_NO_FLAGS_QUOT = 138;
.. R4662 00 LITERAL H_NO_FLAGS_SPAC = 139;
.. R4663 00 LITERAL H_NO_FLAGS_SUBI = 140;
```

FLIPRECS -- FLIP/RUNOFF record formats  
TOCHL -- HL indicator record

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R4664	0	LITERAL H_NO_FLAGS_SUBS =	141:
R4665	00	LITERAL H_NO_FLAGS_UNDE =	142:
R4666	00	LITERAL H_NO_FLAGS_UPPE =	143:
R4667	00	LITERAL H_NO_HEADERS =	144:
R4668	00	LITERAL H_NO_TOPNOTE =	145:
R4669	00	LITERAL H_NO_HYPHENATIO =	146:
R4670	00	LITERAL H_NO_KEEP =	147:
R4671	00	LITERAL H_NO_JUSTIFY =	148:
R4672	00	LITERAL H_NO_NUMBER =	149:
R4673	00		
UR4674	00	%IF DSRPLUS %THEN	
UR4675	00	LITERAL H_NO_NUMBER_FOO =	150:
R4676	00	%FI	
R4677	00		
R4678	00	LITERAL H_NO_PAGING =	151:
R4679	00	LITERAL H_NO_PERIOD =	152:
R4680	00	LITERAL H_NO_SPACE =	153:
R4681	00	LITERAL H_NO_SUBTITLE =	154:
R4682	00	LITERAL H_NUMBER_APPEND =	155:
R4683	00	LITERAL H_NUMBER_CHAPTE =	156:
R4684	00		
UR4685	00	%IF DSRPLUS %THEN	
UR4686	00	LITERAL H_NUMBER_EXAMPL =	157:
UR4687	00	LITERAL H_NUMBER_FIGURE =	158:
UR4688	00	LITERAL H_NUMBER_FOOTNO =	159:
R4689	00	%FI	
R4690	00		
R4691	00	LITERAL H_NUMBER_INDEX =	160:
R4692	00	LITERAL H_NUMBER_LEVEL =	161:
R4693	00	LITERAL H_NUMBER_LIST =	162:
R4694	00	LITERAL H_NUMBER_PAGE =	163:
R4695	00	LITERAL H_NUMBER_RUNNIN =	164:
R4696	00	LITERAL H_NUMBER_SUBPAG =	165:
R4697	00		
UR4698	00	%IF DSRPLUS %THEN	
UR4699	00	LITERAL H_NUMBER_TABLE =	166:
R4700	00	%FI	
R4701	00		
R4702	00	LITERAL H_PAGE =	167:
R4703	00		
UR4704	00	%IF DSRPLUS %THEN	
UR4705	00	LITERAL H_PAGE_NOW =	215:
R4706	00	%FI	
R4707	00		
R4708	00	LITERAL H_PAGE_SIZE =	168:
R4709	00	LITERAL H_PAGING =	169:
R4710	00	LITERAL H_PARAGRAPH =	170:
R4711	00	LITERAL H_PERIOD =	171:
R4712	00	LITERAL H_PRINT_INDEX =	172:
R4713	00	LITERAL H_REPEAT =	173:
R4714	00	LITERAL H_REQUIRE =	174:
R4715	00	LITERAL H_RESTORE =	175:
R4716	00	LITERAL H_RIGHT =	176:
R4717	00	LITERAL H_RIGHT_MARGIN =	177:
R4718	00	LITERAL H_SAVE =	178:
R4719	00	LITERAL H_SAVE_ALL =	179:
R4720	0		

```

UR4721 0 %IF DSRPLUS %THEN
UR4722 00 LITERAL H_SEND_CONTENTS = 180;
R4723 00 %FI
R4724 00
R4725 00 LITERAL H_SEND_TOC = 181;
R4726 00
UR4727 00 %IF DSRPLUS %THEN
UR4728 00 LITERAL H_SET_COUNTER = 182;
R4729 00 %FI
R4730 00
R4731 00 LITERAL H_SET_DATE = 183;
R4732 00 LITERAL H_SET_LEVEL = 184;
R4733 00 LITERAL H_SET_PARAGRAPH = 185;
R4734 00
UR4735 00 %IF DSRPLUS %THEN
UR4736 00 LITERAL H_SET_TEXTSTRIN = 186;
R4737 00 %FI
R4738 00
R4739 00 LITERAL H_SET_TIME = 187;
R4740 00 LITERAL H_SKIP = 188;
R4741 00 LITERAL H_SPACING = 189;
R4742 00 LITERAL H_STANDARD = 190;
R4743 00
UR4744 00 %IF DSRPLUS %THEN
UR4745 00 LITERAL H_STYLE_APPENDI = 191;
UR4746 00 LITERAL H_STYLE_CHAPTER = 192;
R4747 00 %FI
R4748 00
R4749 00 LITERAL H_STYLE_DATE = 193;
R4750 00
UR4751 00 %IF DSRPLUS %THEN
UR4752 00 LITERAL H_STYLE_EXAMPLE = 194;
UR4753 00 LITERAL H_STYLE_FIGURE = 195;
R4754 00 %FI
R4755 00
R4756 00 LITERAL H_STYLE_HEADERS = 196;
R4757 00
UR4758 00 %IF DSRPLUS %THEN
UR4759 00 LITERAL H_STYLE_TABLE = 197;
R4760 00 %FI
R4761 00
R4762 00 LITERAL H_STYLE_TIME = 198;
R4763 00 LITERAL H_SUBINDEX = 199;
R4764 00 LITERAL H_SUBPAGE = 200;
R4765 00 LITERAL H_SUBTITLE = 201;
R4766 00 LITERAL H_TAB_STOPS = 202;
R4767 00 LITERAL H_TEST_PAGE = 203;
R4768 00 LITERAL H_TITLE = 204;
R4769 00 LITERAL H_UPPER_CASE = 205;
R4770 00 LITERAL H_VARIABLE = 206;
R4771 00 LITERAL H_XLOWER = 207;
R4772 00
UR4773 00 %IF DSRPLUS %THEN
UR4774 00 LITERAL H_XPLUS = 208;
R4775 00 %FI
R4776 00
R4777 0 LITERAL H_XUPPER = 209;

```

FLIPRECS -- FLIP/RUNOFF record formats  
TOCHL -- HL indicator record

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\_S255SDUA28:[RUNOFF.SRC]RUNHAN.REQ;1  
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(3)

R4778 0  
UR4779 0  
UR4780 0  
R4781 0  
R4782 0  
R4783 0  
R4784 0  
R4785 0  
R4786 0

%IF DSRPLUS %THEN  
LITERAL H\_YPLUS = 210;  
%FI

LITERAL FIRST\_COMMAND = 1;  
LITERAL LAST\_COMMAND = 215;

! End of RUNHAN.REQ

FLIPRECS -- FLIP/RUNOFF record formats  
TOCHL -- NL indicator record

E 11  
15-Sep-1984 23:07:40  
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\_S255SDUA28:[RUNOFF.SRC]DSRLIB.REQ;1 Page 169  
(2)

; 4787 0 REQUIRE 'REQ:SAVE.REQ'; ! Save and Restore definitions

Version: 'V04-000'

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FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS

ABSTRACT:

This require file defines part of the storage area for the .SAVE  
commands. Whole structures that will be saved will remain as they  
are; this Require file just defines the additional area for the  
single items. Items declared in the SAVE area do not also appear in  
the SAVEALL area because the SAVEALL area includes all that is in  
the SAVE area.

ENVIRONMENT: Transportable BLISS

AUTHOR: Ken Alden

CREATION DATE: December 1982

MODIFIED BY:

007 REM00007 Ray Marshall 1-June-1984  
Completely reworked the definitions of SAVE\_LENGTH &  
SAVEALL\_LENGTH. At least one size was wrong and hard coded  
values were used where a XSIZE could have been used. Now  
XSIZE is used for most of the items. Also, the XPD\_ items  
are now conditionalized for DSRPLUS.

006 KFA00006 Ken Alden 30-Sep-1983  
Moved the HCT items to the .SAVE list and three SCA items to  
the .SAVE ALL item block.

FLIPRECS -- FLIP/RUNOFF record formats  
TOCHL -- HL indicator record

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(1)

R4845 0  
R4846 0  
R4847 0  
R4848 0  
R4849 0  
R4850 0  
R4851 0  
R4852 0  
R4853 0  
R4854 0  
R4855 0

005 KFA00005 Ken Alden 27-Jul-1983  
Added gca\_flag\_cmd to the save list.  
004 KFA00004 Ken Alden 5-Jul-1983  
Added SCA\_FLAGS to the save list.  
003 KAD00003 Keith Dawson 07-Mar-1983  
Global edit of all modules. Updated module names, idents,  
copyright dates. Changed require files to BLISS library.

R4856 0  
R4857 00  
R4858 00  
R4859 00  
R4860 00  
R4861 00  
R4862 00  
R4863 00  
R4864 00  
R4865 00  
R4866 00  
R4867 00  
R4868 00  
R4869 00  
R4870 00  
R4871 00  
R4872 00  
R4873 00  
R4874 00  
R4875 00  
R4876 00  
R4877 00  
R4878 00  
R4879 00  
R4880 00  
R4881 00  
R4882 00  
R4883 00  
MR4884 00  
R4885 00  
R4886 00  
R4887 00  
R4888 00  
R4889 00  
R4890 00  
R4891 00  
R4892 00  
R4893 00  
R4894 00  
R4895 00  
R4896 00  
R4897 00  
R4898 00  
R4899 00  
R4900 00  
R4901 00  
R4902 00  
R4903 00  
R4904 00  
R4905 00  
MR4906 00  
R4907 00  
R4908 00  
R4909 00  
MR4910 00  
R4911 00  
R4912 0

```
$FIELD SAVE_FIELDS =
SET
  save$g_sca_cc_ok      = [$INTEGER],
  save$g_sca_justify    = [$INTEGER],
  save$g_sca_fill       = [$INTEGER],
  save$g_sca_crock      = [$INTEGER],
  save$g_sca_lm         = [$INTEGER],
  save$g_sca_rm         = [$INTEGER],
  save$g_sca_spacing    = [$INTEGER],
  save$g_sca_ker        = [$INTEGER],
  save$g_sca_autotitle  = [$INTEGER],
  save$g_sca_flags      = [$INTEGER],
  save$g_gca_width      = [$INTEGER],
  save$g_gca_flag_cmd   = [$INTEGER],
  save$g_gca_keep       = [$INTEGER],
  save$g_hct_hd_case    = [$INTEGER],
  save$g_hct_date       = [$INTEGER],
  save$g_hct_headers    = [$INTEGER],
  save$g_hct_nmpg_np    = [$INTEGER],
  save$g_hct_number_pag = [$INTEGER],
  save$g_hct_subtitle   = [$INTEGER],
  save$g_phan_llines    = [$INTEGER],
TES;
```

```
LITERAL
  save$k_length = $FIELD_SET_SIZE;
```

```
MACRO
  $save_block =
    BLOCK [save$k_length] FIELD (save_fields) %;
```

```
$FIELD saveall_fields =
SET
  saveall$g_gca_autojust = [$INTEGER],
  saveall$g_gca_autopara = [$INTEGER],
  saveall$g_gca_autosubt = [$INTEGER],
  saveall$g_gca_autotabl = [$INTEGER],
  saveall$g_gca_case     = [$INTEGER],
  saveall$g_gca_xcase    = [$INTEGER],
  saveall$g_phan_header  = [$INTEGER],
  saveall$g_phan_paging  = [$INTEGER],
  saveall$g_sca_cc_ok    = [$INTEGER],
  saveall$g_sca_bar_char = [$INTEGER],
  saveall$g_sca_period   = [$INTEGER],
TES;
```

```
LITERAL
  saveall$k_length = $FIELD_SET_SIZE;
```

```
MACRO
  $saveall_block =
    BLOCK [saveall$k_length] FIELD (saveall_fields) %;
```

```
MACRO
  $XWDS (defined as) =
    $SIZE(defined_as)/%UPVAL %;
```

LITERAL

Counting XBPVALs (or fullwords) since the size of this literal  
is in XBPVALs.

save\_length = \$XWDS(flag\_table [flag\_count]) ! The flag table.  
+ \$XWDS(COUNTED\_LIST [max\_tabs]) ! The TAB table  
+ \$XWDS(atable\_definition) ! The Action TABLE  
+ \$XWDS(VECTOR [pdt\_size]) ! paragraph definition tables  
+ save\$length, ! SAVE block

%( save\_length = (flag\_count \* 2) ! Each flag uses Two fullwords  
+ max\_tabs+2 ! maximum tabs plus two control words  
+ CH\$ALLOCATION(atable\_length) ! Each Action TABLE entry is one byte  
+ pdt\_size ! paragraph definition tables  
+ \$XWDS(\$save\_block), ! SAVE block

)% saveall\_length = save\_length ! Size of SAVE structure  
+ saveall\$length ! SAVEALL block  
+ 6 ! for DATTIM  
+ \$xwds(counted\_list [max\_levels]) ! for HLLIST  
+ (max\_ecc \* ecc\$length) ! for ECC

%IF DSRPLUS %THEN

+ 1 ! for XPD\_FLAGS  
+ \$xwds(fixed\_string [xp\_string\_size]) ! for XPD\_APPEND

%FI

%( Alternate definitions:

+ max\_levels+2 ! for HLLIST  
+ (xp\_string\_size/XUPVAL)+4 ! for XPD\_APPEND

)%

FLIPRECS -- FLIP/RUNOFF record formats  
TOCHL -- HL indicator record

J 11  
15-Sep-1984 23:07:40  
15-Sep-1984 22:50:43

VAX-11 BLISS-32 V4.0-742  
\_S255SDUA28:[RUNOFF.SRC]DSRLIB.REQ;1  
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; 4943 0 REQUIRE 'REQ:SAVSTK.REQ'; ! Save and Restore stack

Version: 'V04-000'

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FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS

ABSTRACT:  
Defines the storage area for the .SAVE commands.

ENVIRONMENT: Transportable BLISS

AUTHOR: Ken Alden

CREATION DATE: December 1982

MODIFIED BY:

002 KAD00002 Keith Dawson 07-Mar-1983  
Global edit of all modules. Updated module names, idents,  
copyright dates. Changed require files to BLISS library.

--  
LITERAL

stksav_size	= 30.	! We store up to 30 .SAVEs to record trans.
savstk_size	= 20.	! Up to 20 levels of .SAVEs
savstk_depth	= -1.	! Index into the SAVSTK where the current depth is saved.
savstk_address	= 0.	! Index to starting address of the save block.
savstk_source	= 1.	! The handler code of the command that made this entry.
savstk_req_d	= 2.	! .REQUIRE depth at which .IF must terminate
savstk_ipagen	= 3.	! Input file page number
savstk_iseqn	= 4.	! Input file sequence number.
savstk_fspecc	= 5.	! A reference to the file spec where the command occurred.

FLIPRECS -- FLIP/RUNOFF record formats  
TOCHL -- HL indicator record

L 11  
15-Sep-1984 23:07:40  
15-Sep-1984 22:54:27

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savstk\_fspecc = 6; ! Length of file spec of above.

LITERAL

savstk\_item\_count = 7; !Number of pieces of info in SAVSTK.

STRUCTURE

savstack [i,j;n=stksav\_size,m=savstk\_item\_count] =  
[XUPVAL\*( m\*n + 1 + 8 )] ? Leave room for the 0th nesting level.  
(savstack + (IF j EQL savstk\_depth  
THEN 0  
ELSE XUPVAL\*(1 + m\*i + j) ) );

!

End of SAVSTK.REQ

R5001 0  
R5002 0  
R5003 0  
R5004 0  
R5005 0  
R5006 0  
R5007 0  
R5008 0  
R5009 2  
R5010 2  
R5011 0  
R5012 0  
R5013 0

FLIPRECS -- FLIP/RUNOFF record formats  
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VAX-11 Bliss-32 V4.0-742  
\_S255SDUA28:[RUNOFF.SRC]DSRLIB.REQ;1

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: 5014 0 REQUIRE 'REQ:SCA.REQ'; ! SCA\_... Scanner and translator control items

Version: 'V04-000'

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++  
FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS

ABSTRACT:  
Definitions having to do with SCA (SCANT control area).

ENVIRONMENT: Compatible BLISS

AUTHOR: Rich Friday

CREATION DATE: 1978

MODIFIED BY:

016 REM00016 Ray Marshall 16-November-1983  
Added macros with 'f' within their names and defining cells  
so they can be loaded by Ken's SAVRES module using macro  
names instead of numeric offsets.

015 REM00015 Ray Marshall 7-November-1983  
Added 12 more cells to the case rules section to support case  
changing within the DEC multinational character set. This  
also required renumbering the whole table!

014 KFA00014 Ken Alden 18-Sep-1983  
For DSRPLUS: added sca\_margin\_pad.

013A KFA00013A Ken Alden 30-Sep-1983  
Comment changes only; for three items that moved  
from save to save all.

R5072 0  
R5073 0  
R5074 0  
R5075 0  
R5076 0  
R5077 0  
R5078 0  
R5079 0  
R5080 0  
R5081 0  
R5082 0  
R5083 0  
R5084 0  
R5085 0  
R5086 0  
R5087 0  
R5088 0

013 KFA00013 Ken Alden 13-Sep-1983  
For DSRPLUS: Added SCA\_WRD\_PASS to the SCA\_PASS word [35]  
and made SCA\_PASS into a bit.

012 KFA00012 Ken Alden 05-Jul-1983  
added SCA\_FLAGS to the save list.

011 KFA00011 Ken Alden 15-Mar-1983  
For DSRPLUS: added SCA[35] SCA\_PASS for flags passthrough  
For DSR: Extended SAVE & RESTORE capability.

010 KAD00010 Keith Dawson 07-Mar-1983  
Global edit of all modules. Updated module names, ids, etc.,  
copyright dates. Changed require files to BLISS library.

MACRO

```
SCA_FC_UT      = SCA[00]%,      !Save case rules here when
SCA_OC_UT      = SCA[01]%,      !exceptions are set up.
SCA_FC_LT      = SCA[02]%,      ...
SCA_OC_LT      = SCA[03]%,      ...
SCA_WRD_FC_UT  = SCA[04]%,      !Case rules for current word.
SCA_WRD_FC_LT  = SCA[05]%,      ...
SCA_WRD_OC_UT  = SCA[06]%,      ...
SCA_WRD_OC_LT  = SCA[07]%,      ...
SCA_FCBE_UT    = SCA[08]%,      !Default case rules.
SCA_OCBE_UT    = SCA[09]%,      ...
SCA_FCBE_LT    = SCA[10]%,      ...
SCA_OCBE_LT    = SCA[11]%,      ...
SCA_MNFC_UT    = SCA[12]%,      !Save case rules here when
SCA_MNOC_UT    = SCA[13]%,      !exceptions are set up.
SCA_MNFC_LT    = SCA[14]%,      ...
SCA_MNOC_LT    = SCA[15]%,      ...
SCA_MNWRD_FC_UT = SCA[16]%,      !Case rules for current word.
SCA_MNWRD_FC_LT = SCA[17]%,      ...
SCA_MNWRD_OC_UT = SCA[18]%,      ...
SCA_MNWRD_OC_LT = SCA[19]%,      ...
SCA_MNFCBE_UT  = SCA[20]%,      !Default case rules.
SCA_MNOCBE_UT  = SCA[21]%,      ...
SCA_MNFCBE_LT  = SCA[22]%,      ...
SCA_MNOCBE_LT  = SCA[23]%,      ...
SCA_WORD_SET   = SCA[24]%,      !TRUE if case rules set for a word only.
```

\*\*\*\*\*  
!Everything above this point is counted in SCA\_CASE\_SIZE.

```
SCA_JUSTIFY    = .SCA[25]%,      !(SAVE)TRUE if text should be justified.
SCA_f_JUSTIFY  = SCA[25]%,
SCA_FILL       = .SCA[26]%,      !(SAVE)TRUE if filling lines.
SCA_f_FILL     = SCA[26]%,
SCA_CC_OK      = .SCA[27]%,      !(SAVE ALL)TRUE if control characters allowed in input file
SCA_f_CC_OK    = SCA[27]%,
SCA_CROCK      = .SCA[28]%,      !(SAVE)See FJNFNJ for explanation.
SCA_f_CROCK    = SCA[28]%,
SCA_LM         = .SCA[29]%,      !(SAVE)The left margin.
SCA_f_LM       = SCA[29]%,
SCA_RM         = .SCA[30]%,      !(SAVE)The right margin.
SCA_f_RM       = SCA[30]%,
SCA_SPACING    = .SCA[31]%,      !(SAVE)1+number of blank lines between lines of text.
SCA_f_SPACING  = SCA[31]%,
SCA_PERIOD     = .SCA[32]%,      !(SAVE ALL)TRUE if double spacing after ".?!;:"
SCA_f_PERIOD   = SCA[32]%,
SCA_KER        = .SCA[33]%,      !(SAVE)TRUE if empty records have significance.
SCA_f_KER      = SCA[33]%,
SCA_BAR_CHAR   = .SCA[34]%,      !(SAVE ALL)Change bar character to be used if enabled.
SCA_f_BAR_CHAR = SCA[34]%,
SCA_AUTOTITLE  = .SCA[35]%,      !(SAVE)TRUE if .AUTOTITLE is in effect.
SCA_f_AUTOTITLE = SCA[35]%,
SCA_FLAGS      = .SCA[36]%,      !TRUE if flags are enabled.
SCA_f_FLAGS    = SCA[36]%,
```

\*\*\*\*\* end of save area \*\*\*\*\*

```
SCA_FC         = SCA[37]%,      !TRUE if first character on the line.
```

```

R5146 0 SCA_NBITS = SCA[38]%, !SEE BELOW
R5147 0 SCA_X_FLAG = SCA[39]%, !TRUE if in the middle of a sequence
R5148 0 !marked by the <INDEX flag>
R5149 0 SCA_FRC_CASE = SCA[40]%, !TRUE if case of current
R5150 0 !word was forced.
R5151 0 SCA_CONT = SCA[41]%, !TRUE if user said .NO SPACE
R5152 0 SCA_DO_NBITS = SCA[42]%, !SEE BELOW
R5153 0 SCA_PRESCAN = SCA[43]%, !See SCANT for explanation
R5154 0 SCA_HEADER = SCA[44]%, !Used by FLIP -- True if
R5155 0 !collecting a header level.
R5156 0 SCA_SECT_EMPTY = SCA[45]%, !TRUE if nothing in current section.
R5157 0 SCA_XROUTINE = SCA[46]%, !Indicates which routine to call for indexing:
R5158 0 !FALSE ==> XR, TRUE ==> SUBXR.
UR5159 0 !IF DSRPLUS THEN
UR5160 0 SCA_PASS = (SCA[47])<0,1>%, !TRUE user is passing escape
UR5161 0 !sequences.
UR5162 0 SCA_WRD_PASS = (SCA[47])<1,1>%, !TRUE user is passing escape
UR5163 0 !sequences along with this word.
UR5164 0 SCA_MARGIN_PAD = (SCA[47])<8,8>%, !Number of spaces added at the
UR5165 0 !beginning of MRA.
R5166 0 !
R5167 0 !...
R5168 0 SCA_WRD_NBITS = SCA[48]%, !SEE BELOW
R5169 0 SCA_WRD_CNBITS = SCA[49]%, !SEE BELOW
R5170 0 SCA_WRD_ACNBITS = SCA[50]%, !SEE BELOW
R5171 0 SCA_RSKIPS = SCA[51]%, !TRUE if multiple spaces/tabs are to
R5172 0 !be skipped.
R5173 0 !
R5174 0 !...
R5175 0 SCA_FC_CASE = SCA[52]%, !TRUE if case rules to be used are
R5176 0 !those for the first character of a word.
R5177 0 SCA_INDEX = SCA[53]%, !TRUE if indexing commands are to be obeyed.
R5178 0 SCA_FRC_CHR = SCA[54]%, !True if current character should not be translated.
R5179 0 SCA_INDENT = SCA[55]%, !Pending indentation.
R5180 0 SCA_PARA_PND = SCA[56]%, !TRUE if a paragraph is pending.
R5181 0 !
R5182 0 !...
R5183 0 !
R5184 0 !*****
R5185 0 SCA_WRD_PNTR = SCA[62]%, !A CH$PTR to the first character of the word.
R5186 0 SCA_WRD_INT_L = SCA[63]%, !Internal representation size so far.
R5187 0 SCA_WRD_EXT_L = SCA[64]%, !External size (i.e., print positions)
R5188 0 SCA_WRD_ISEQN = SCA[65]%, !Input line counter or record number.
R5189 0 SCA_WRD_DRAFT = SCA[66]%, !TRUE if word is inside a /DRAFT area.
R5190 0 SCA_WRD_DRAFT_F = SCA[67]%, !The draft flag for this word.
R5191 0 SCA_WRD_BARS = (SCA[68])<BAR>%, !TRUE if change bars associated with this word.
R5192 0 SCA_WRD_BAR_CHR = SCA[69]%, !Use this character as the change bar.
R5193 0 SCA_WRD_CPERD = SCA[70]%, !Character being worked on.
R5194 0 SCA_WRD_SEQN_F = SCA[71]%, !TRUE if SCA_WRD_ISEQN is an SOS style record number.
R5195 0 SCA_WRD_IPAGEN = SCA[72]%, !Input page number.
R5196 0 SCA_WRD_FOOTW = SCA[73]%, !The number of footnotes attached to
R5197 0 !this word.
R5198 0 SCA_WRD_F_XTN = SCA[74]%, !First transaction number associated with this word.
R5199 0 SCA_WRD_L_XTN = SCA[75]%, !Last transaction number associated with this word.
R5200 0 !
R5201 0 !...
R5202 0 SCA_WRD_LST_HYP = SCA[80]%, !TRUE if word to end with a '-'.
SCA_WRD_HYP_PTR = SCA[81]%, !If SCA_WRD_LST_HYP is TRUE,

```

```

R5203 0
R5204 0
R5205 0
R5206 0
R5207 0
R5208 0
R5209 0
R5210 0
R5211 0
R5212 0
R5213 0
R5214 0
R5215 0
R5216 0
R5217 0
R5218 0
R5219 0
R5220 0
R5221 0
R5222 0
R5223 0
R5224 0
R5225 0
R5226 0
R5227 0
R5228 0
R5229 0
R5230 0
R5231 0
R5232 0
R5233 0
R5234 0
R5235 0
R5236 0
R5237 0
R5238 0
R5239 0
R5240 0
R5241 0
R5242 0
R5243 0
R5244 0
R5245 0
R5246 0
R5247 0
R5248 0
R5249 0
R5250 0
R5251 0
R5252 0
R5253 0
R5254 0
R5255 0
R5256 0
R5257 0
R5258 0
R5259 0

```

SCA\_WRD\_LC\_PNCT = SCA[82]%, !then a CHSPTR to the '-'.  
SCA\_WRD\_LST\_SP = SCA[83]%, !TRUE if last character was end-of-sentence punctuation.  
SCA\_WRD\_LST\_JUS = SCA[84]%, !Number of spaces after last word.  
SCA\_WRD\_LST\_UND = SCA[85]%, !True if justification mark after last word.  
!True if last space was underlined.

LITERAL SCA\_CASE\_SIZE = 25, !Number of cells containing case information  
SCA\_SIZE = 96; !Number of cells in entire SCA

LITERAL SCA\_SAVE\_START = 25, !Starting number of the SAVED SCA bits  
SCA\_SAVE\_END = 36; !Ending

!NOTE\*\*\* For all fields having to do with underlining, bolding, etc, see ENDCHR, ENDWRD, OUTLIN, and DOFLG  
! to see how these fields get manipulated.

!The bits defined by these macros get set to TRUE if SCANT is supposed  
!to BOLD and/or UNDERline all characters it encounters. These bits get  
!set/unset by things like ^& and \&, and .ENABLE/.DISABLE BOLDING, etc.

MACRO  
SCA\_BLD = (SCA\_NBITS)<BLD-->%,  
SCA\_UND = (SCA\_NBITS)<UND-->%,  
SCA\_BLDUND = (SCA\_NBITS)<BLDUND-->%; ! Bolding and underlining  
! as a set.

!The bits defined by these macros determine whether or not various flags  
!have any effect. TRUE means that the corresponding function should be  
!done when the flag is recognized, FALSE not.

!These bits get set/cleared by commands such as .ENABLE/.DISABLE BOLDING,  
!and so on. See FLGSEM, which sets these flags.

!There is a difference between SCA\_XXX and SCA\_DO\_XXX. The former  
!indicates whether or not the XXX type of emphasis has been turned on  
!by a construct such as ^&. The latter indicates whether or not the  
!emphasis called for by XXX should really be done. In particular,  
!consider the following sequence:

!00100 .ENABLE UNDERLINING;^&  
!00200 This text will be underlined because both .ENABLE UNDERLINING and ^&  
!00300 were specified. But  
!00400 .DISABLE UNDERLINING;this text (after the ";") will not be underlined  
!00500 because the .DISABLE UNDERLINING command indicates it should not be  
!00600 done. Or, perhaps more interesting is the fact that even  
!00700 &th&e&s&e &t&w&o &w&o&r&d&s will not be underlined whereas  
!00800 .ENABLE UNDERLINING;these two words& will be underlined, but nothing  
!00900 after the \& sequence.

MACRO  
SCA\_DO\_BLD = (SCA\_DO\_NBITS)<BLD-->%,  
SCA\_DO\_UND = (SCA\_DO\_NBITS)<UND-->%,  
SCA\_DO\_BLDUND = (SCA\_DO\_NBITS)<BLDUND-->%; !Bolding and underlining as a set.  
SCA\_DO\_OVR = (SCA\_DO\_NBITS)<OVR-->%,  
SCA\_DO\_IND = (SCA\_DO\_NBITS)<IND-->%,  
SCA\_DO\_HYP = (SCA\_DO\_NBITS)<HYP-->%;

MACRO  
! The fields defined here are accumulated for an entire word.  
! They get cleared at the start of a new word.

```

R5260 0          SCA_WRD_BLD      = (SCA_WRD_NBITS)<BLD_-->%,
R5261 0          SCA_WRD_UND      = (SCA_WRD_NBITS)<UND_-->%,
R5262 0          SCA_WRD_BLDUND    = (SCA_WRD_NBITS)<BLDOND_-->%, !Bolding and underlining as a set
R5263 0          SCA_WRD_OVR      = (SCA_WRD_NBITS)<OVR_-->%;
```

MACRO

! The fields defined here get set just before a new character  
! is picked up. They are inherited from the global environment  
! in effect at that time.

```

R5270 0          SCA_WRD_C_BLD    = (SCA_WRD_CNBITS)<BLD_-->%,
R5271 0          SCA_WRD_C_UND    = (SCA_WRD_CNBITS)<UND_-->%,
R5272 0          SCA_WRD_C_BLDUN  = (SCA_WRD_CNBITS)<BLDOND_-->%, !Bolding and underlining as a set
R5273 0          SCA_WRD_C_OVR    = (SCA_WRD_CNBITS)<OVR_-->%;
```

MACRO

! The fields defined here get set as various functions are  
! requested, on a once-only basis (e.g., single character underline, &x). These fields, together with  
! the previous three fields, determine what functions have been  
! requested for a specific character.

```

R5280 0          SCA_WRD_AC_BLD   = (SCA_WRD_ACNBITS)<BLD_-->%,
R5281 0          SCA_WRD_AC_UND   = (SCA_WRD_ACNBITS)<UND_-->%,
R5282 0          SCA_WRD_AC_BLDUN = (SCA_WRD_ACNBITS)<BLDOND_-->%, !Bolding and underlining as a set
R5283 0          SCA_WRD_AC_OVR   = (SCA_WRD_ACNBITS)<OVR_-->%;
```

MACRO

```

R5286 0          SCA_DEFINITION =
R5287 0          VECTOR[SCA_SIZE]%;
```

\$FIELD H\_R\_SCA\_FIELDS =

```

R5291 0          SET
R5292 0          H_R_SG_SCA_JUSTIFY = [$INTEGER],
R5293 0          H_R_SG_SCA_FILL   = [$INTEGER],
R5294 0          H_R_SG_SCA_CC_OK  = [$INTEGER],
R5295 0          H_R_SG_SCA_CRÖCK = [$INTEGER],
R5296 0          H_R_SG_SCA_LM     = [$INTEGER],
R5297 0          H_R_SG_SCA_RM     = [$INTEGER],
R5298 0          H_R_SG_SCA_SPACING = [$INTEGER],
R5299 0          H_R_SG_SCA_PERIOD = [$INTEGER],
R5300 0          H_R_SG_SCA_KER    = [$INTEGER],
R5301 0          H_R_SG_SCA_BAR_CHAR = [$INTEGER],
R5302 0          H_R_SG_SCA_AUTOTITLE = [$INTEGER],
R5303 0          H_R_SG_SCA_FLAGS  = [$INTEGER],
R5304 0          TES;
```

LITERAL

```

R5306 0          H_R_SCA$K_LENGTH = $FIELD_SET_SIZE;
```

LITERAL

```

R5309 0          MAX_H_R_SCA = 3; !This means there are a maximum of 3 concurrent PUSH_SCAs.
```

MACRO

```

R5312 0          $H_R_SCA_BLOCK =
R5313 0          BLOCK [H_R_SCA$K_LENGTH] FIELD (H_R_SCA_FIELDS) %;
```

MACRO

```

R5315 0          PUSH_SCA =
```

```

MR5317 0
MR5318 0
MR5319 0
MR5320 0
MR5321 0
MR5322 0
MR5323 0
MR5324 0
MR5325 0
MR5326 0
MR5327 0
MR5328 0
MR5329 0
MR5330 0
MR5331 0
MR5332 0
MR5333 0
MR5334 0
MR5335 0
MR5336 0
MR5337 0
MR5338 0
MR5339 0
MR5340 0
MR5341 0
MR5342 0
MR5343 0
MR5344 0
MR5345 0
MR5346 0
MR5347 0
MR5348 0
MR5349 0

BEGIN
PP_SCA [ H_R_$G_SCA_JUSTIFY ] = .SCA_JUSTIFY;
PP_SCA [ H_R_$G_SCA_FILL ] = .SCA_FILL;
PP_SCA [ H_R_$G_SCA_CC_OK ] = .SCA_CC_OK;
PP_SCA [ H_R_$G_SCA_CROCK ] = .SCA_CROCK;
PP_SCA [ H_R_$G_SCA_LM ] = .SCA_LM;
PP_SCA [ H_R_$G_SCA_RM ] = .SCA_RM;
PP_SCA [ H_R_$G_SCA_SPACING ] = .SCA_SPACING;
PP_SCA [ H_R_$G_SCA_PERIOD ] = .SCA_PERIOD;
PP_SCA [ H_R_$G_SCA_KER ] = .SCA_KER;
PP_SCA [ H_R_$G_SCA_BAR_CHAR ] = .SCA_BAR_CHAR;
PP_SCA [ H_R_$G_SCA_AUTOTITLE ] = .SCA_AUTOTITLE;
PP_SCA [ H_R_$G_SCA_FLAGS ] = .SCA_FLAGS;
END
%:

MACRO
POP_SCA =
BEGIN
SCA_JUSTIFY = .PP_SCA [ H_R_$G_SCA_JUSTIFY ];
SCA_FILL = .PP_SCA [ H_R_$G_SCA_FILL ];
SCA_CC_OK = .PP_SCA [ H_R_$G_SCA_CC_OK ];
SCA_CROCK = .PP_SCA [ H_R_$G_SCA_CROCK ];
SCA_LM = .PP_SCA [ H_R_$G_SCA_LM ];
SCA_RM = .PP_SCA [ H_R_$G_SCA_RM ];
SCA_SPACING = .PP_SCA [ H_R_$G_SCA_SPACING ];
SCA_PERIOD = .PP_SCA [ H_R_$G_SCA_PERIOD ];
SCA_KER = .PP_SCA [ H_R_$G_SCA_KER ];
SCA_BAR_CHAR = .PP_SCA [ H_R_$G_SCA_BAR_CHAR ];
SCA_AUTOTITLE = .PP_SCA [ H_R_$G_SCA_AUTOTITLE ];
SCA_FLAGS = .PP_SCA [ H_R_$G_SCA_FLAGS ];
END
%:

```

FLIPRECS -- FLIP/RUNOFF record formats  
TOCHL -- HL indicator record

H 12  
15-Sep-1984 23:07:40  
15-Sep-1984 22:50:43

VAX-11 B11ss-32 V4.0-742  
\_S255SDUA28:[RUNOFF.SRC]DSRL10.REQ;1  
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: 5350 0 REQUIRE 'REQ:SETCAS.REQ'; ! Case control literals

Version: 'V04-000'

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FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS

ABSTRACT:  
Mnemonics for forcing letters into appropriate case.

ENVIRONMENT: Transportable BLISS

AUTHOR: Rich Friday

CREATION DATE: 1978

MODIFIED BY:

002 KAD00002 Keith Dawson 07-Mar-1983  
Global edit of all modules. Updated module names, idents,  
copyright dates. Changed require files to BLISS library.

LITERAL

force_lower =	-1.	!Force letters to lower case.
leave_case =	0.	!Leave letters in same case as input.
force_upper =	1.	!Force letters to upper case.
first_caps =	2.	!First letter of each word to upper case, the rest to !case implied by .UPPER/.LOWER CASE.
one_cap =	3.	!First letter of first word to upper case, the rest to lower.

LITERAL

setcase_low =	-1.	!Lowest numbered translation rule.
---------------	-----	------------------------------------

FLIPRECS -- FLIP/RUNOFF record formats  
TOCHL -- HL indicator record

J 12  
15-Sep-1984 23:07:40  
15-Sep-1984 22:54:33

VAX-11 B11ss-32 V4.0-742  
\_S255\$DUA28:[RUNOFF.SRC]SETCAS.REQ;1 Page 187  
(1)

```
: R5408 0      setcase_high=      3;      !Highest numbered translation rule.  
: R5409 0  
: R5410 0      !  
:                               End of SETCAS.REQ
```

FLIPRECS -- FLIP/RUNOFF record formats  
TOCHL -- HL indicator record

K 12  
15-Sep-1984 23:07:40  
15-Sep-1984 22:50:43

VAX-11 Bliss-32 V4.0-742  
\_S255SDUA28:[RUNOFF.SRC]DSRLIB.REQ;1

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(2)

; 5411 0 REQUIRE 'REQ:TOCRTY.REQ'; ! TOC record type definitions (MAJ\_ & MIN\_)

Version: 'V04-000'

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FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS

ABSTRACT:

Literals defining the record types found in a .BTC or .BRN file. Each  
record is preceded by two words, containing the major record type  
and the minor record type.

ENVIRONMENT: Transportable BLISS

AUTHOR: Keith Dawson

CREATION DATE: May 1982

MODIFIED BY:

007 KAD00007 Keith Dawson 07-Mar-1983  
Global edit of all modules. Updated module names, idents,  
copyright dates. Changed require files to BLISS library.

LITERAL

ma)\_new\_toc = 1,  
ma)\_runoff = 2,  
ma)\_send = 3,  
ma)\_send\_contents = 4;

!Major record types.

!New TOC starting (at start of each file)  
!Record is something automatically output by DSR  
!Record is something specified by .SEND TOC  
!Record is something specified by .SEND CONTENTS

!The following minor record types apply when the major record type is MAJ\_RUNOFF.

```

R5469 0
R5470 00 LITERAL
R5471 00 min_hl_inf = 0, !Header level information
R5472 00 min_page = 1, !Page number
R5473 00 min_hl_txt = 2, !Header level text, numbered
R5474 00 min_chapt = 3, !Chapter title (BfC files only)
R5475 00 min_append = 4, !Appendix title (BTC files only)
R5476 00 min_index = 5, !Start the index.
R5477 00 !
R5478 00 min_hl_txt_u = 6, !Header level text, unnumbered
R5479 00 !
R5480 00 min_examp_inf = 7, !Example information
R5481 00 min_examp_txt = 8, !Example caption text, numbered
R5482 00 min_examp_txt_u = 9, !Example caption text, unnumbered
R5483 00 !
R5484 00 min_figur_inf = 10, !Figure information
R5485 00 min_figur_txt = 11, !Figure caption text, numbered
R5486 00 min_figur_txt_u = 12, !Figure caption text, unnumbered
R5487 00 !
R5488 00 min_table_inf = 13, !Table information
R5489 00 min_table_txt = 14, !Table caption text, numbered
R5490 00 min_table_txt_u = 15, !Table caption text, unnumbered
R5491 00 !
R5492 00 min_chapt_inf = 16, !Chapter information
R5493 00 min_chapt_txt = 17, !Chapter caption text, numbered
R5494 00 min_chapt_txt_u = 18, !Chapter caption text, unnumbered
R5495 00 !
R5496 00 min_append_inf = 19, !Appendix information
R5497 00 min_append_txt = 20, !Appendix caption text, numbered
R5498 00 min_append_txt_u = 21, !Appendix caption text, unnumbered
R5499 00 !
R5500 00 LITERAL
R5501 00 min_min_type = 0, !The minimum minor record type.
R5502 00 min_max_type = 21, !The maximum minor record type.
R5503 00 !
R5504 00 SEND CONTENTS record group literals.
R5505 00 !
R5506 00 LITERAL
R5507 00 scon_comm = 1, !Send Contents text is a command
R5508 00 scon_txt = 2, !Send Contents text is text, numbered
R5509 00 scon_txt_u = 3, !Send Contents text is text, unnumbered
R5510 00 !
R5511 00 SEND CONTENTS positioning information.
R5512 00 !
R5513 00 LITERAL
R5514 00 scon_lev = 1, !Put Send Contents in main part of CONTENTS
R5515 00 scon_exa = 2, !Put Send Contents in Examples portion
R5516 00 scon_fig = 3, !Put Send Contents in Figures portion
R5517 00 scon_tab = 4, !Put Send Contents in Tables portion
R5518 00 !
R5519 00 !
R5520 00 End of TOCRTY.REQ

```

FLIPRECS -- FLIP/RUNOFF record formats  
TOCHL -- HL indicator record

N 12  
15-Sep-1984 23:07:40  
15-Sep-1984 22:50:43

VAX-11 Bliss-32 V4.0-742  
\_S255\$DUA28:[RUNOFF.SRC]DSRLIB.REQ;1 Page 191  
(2)

```
.. 5521 0
C 5522 0
C 5523 0
C 5524 0
C 5525 0
C 5526 0
C 5527 0
C 5528 0

%IF DSRPLUS %THEN
REQUIRE 'REQ:TNFDEFS.REQ'; ! TN... opcodes and status values for TNFIL
REQUIRE 'REQ:TNREC.REQ'; ! TNREC... items (for topnote record headers)
REQUIRE 'REQ:TOPNOT.REQ'; ! Topnote control table
%FI

REQUIRE 'REQ:TPROB.REQ'; ! Completion codes returned by TPROBE routine
```

Version: 'V04-000'

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FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS

ABSTRACT:  
Condition codes returned by the routine TPROBE in its binary search.

ENVIRONMENT: Transportable BLISS

AUTHOR: Rich Friday

CREATION DATE: 1978

MODIFIED BY:

002 KAD00002 Keith Dawson 07-Mar-1983  
Global edit of all modules. Updated module names, idents,  
copyright dates. Changed require files to BLISS library.

LITERAL  
give\_up = 0; ! Keyword cannot possibly be in list.  
found = 1; ! This entry is the one you want.  
try\_above = 2; ! Keyword has to be above this entry.  
try\_below = 3; ! Keyword has to be below this entry.

End of TPROB.REQ

FLIPRECS -- FLIP/RUNOFF record formats  
TOCHL -- HL indicator record

C 13  
15-Sep-1984 23:07:40  
15-Sep-1984 22:50:43

VAX-11 Bliss-32 V4.0-742  
\_S255\$DUA28:[RUNOFF.SRC]DSRLIB.REQ;1

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(2)

; 5583 0 REQUIRE 'REQ:TSF.REQ'; ! TSF\_ (Text so far) macro definitions

DS

TH  
ME

CREATION DATE: 1978

FLIPRECS -- FLIP/RUNOFF record formats  
TOCHL -- HL indicator record

E 13  
15-Sep-1984 23:07:40  
15-Sep-1984 22:54:43

VAX-11 Bliss-32 V4.0-742  
\_S255SDUA28:[RUNOFF.SRC]TSF.REQ;1

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(2)

R5623 0  
R5624 0  
R5625 0  
R5626 0  
R5627 0  
R5628 0  
R5629 0  
R5630 0  
R5631 0  
R5632 0  
R5633 0  
R5634 0  
R5635 0  
R5636 0

MODIFIED BY:

007 KFA00007 Ken Alden 30-Jun-1983  
Added TSF\_CREF\_COUNT.  
006 REM00006 Ray Marshall 1-June-1983  
Added TSF\_CREF\_DATA.  
005 KAD00005 Keith Dawson 07-Mar-1983  
Global edit of all modules. Updated module names, idents,  
copyright dates. Changed require files to BLISS library.

--

```

R5637 0
MR5638 0
R5639 0
MR5640 0
R5641 0
MR5642 0
R5643 0
MR5644 0
R5645 0
MR5646 0
R5647 0
MR5648 0
R5649 0
MR5650 0
R5651 0
MR5652 0
R5653 0
MR5654 0
R5655 0
MR5656 0
R5657 0
MR5658 0
R5659 0
MR5660 0
R5661 0
MR5662 0
R5663 0
MR5664 0
R5665 0
MR5666 0
R5667 0
MR5668 0
R5669 0
MR5670 0
R5671 0
MR5672 0
R5673 0
MR5674 0
R5675 0
MR5676 0
R5677 0
MR5678 0
R5679 0
MR5680 0
R5681 0
MR5682 0
R5683 0
MR5684 0
R5685 0
MR5686 0
R5687 0
MR5688 0
MR5689 0
R5690 0
MR5691 0
R5692 0
MR5693 0

```

MACRO

tsf_int_hl	= tsf [0]	!Number of characters, internal representation.
tsf_ext_hl	= tsf [1]	!Resulting number of print positions, external.
tsf_nbits	= tsf [2]	!Notes about underlining, etc.
tsf_footw	= tsf [3]	!The number of footnotes attached to this line.
tsf_seqn_flag	= tsf [4]	!TRUE if ISEQN is an SOS style line number.
tsf_index	= tsf [5]	!TRUE if this belongs in the index.
tsf_int_vl	= tsf [6]	!Number of characters representing carriage control.
tsf_bar_char	= tsf [7]	!The character to be used as the change bar.
tsf_jus_cnt	= tsf [8]	!Number of justification marks.
tsf_justify	= tsf [9]	!True if the line is to be justified.
tsf_adjust	= tsf [10]	!Move text this number of positions right.
tsf_btc	= tsf [11]	!TRUE if this goes to the .BTC file.
tsf_draft_flag	= tsf [12]	!The draft flag for this line.
tsf_lines	= tsf [13]	!If this record is part of a footnote, the number of lines it generates.
tsf_first_xtn	= tsf [14]	!First transaction number associated with this text.
tsf_major	= tsf [14]	!If TSF_BTC is true, the major record type.
tsf_last_xtn	= tsf [15]	!Last transaction number associated with this text.
tsf_minor	= tsf [15]	!If TSF_BTC is true, the minor record type.
tsf_padding	= tsf [16]	!Number of spaces needed to justify line.
tsf_iseq	= tsf [17]	!TRUE if the input sequence number is wanted.
tsf_iseqn	= tsf [18]	!The input sequence number for this line.
tsf_ipagen	= tsf [19]	!The input page number for this line.
tsf_filespec	= tsf [20]	!A CH\$PTR to the file-spec.
tsf_oseq	= tsf [21]	!TRUE if the output sequence number is wanted.
tsf_oseqn	= tsf [22]	!The output line number for this line
tsf_bold_depth	= tsf [23]	!Number of times bolded characters should be overstruck. Zero is !equivalent to no bolding.
tsf_text	= tsf [24]	!True, if TSF contains some text.
tsf_just_alg	= tsf [25]	!Justification algorithm to be used on this line.

```

R5694 0
MR5695 0 tsf_xyplus = tsf [26] !True if this line is an XPLUS/YPLUS indexing command.
R5696 0
MR5697 0 tsf_cref_data = tsf [27] ! Pointer to Linked list of CREF BRN records.
R5698 0
MR5699 0 tsf_cref_count = (tsf [28])<0,8> !Number of pending crefs.
R5700 0
R5701 0 tsf_free_cell = tsf [29] !Free cell
R5702 0
R5703 0 tsf_free_cell = tsf [30] !Free cell
R5704 0
MR5705 0 tsf_aux_bits = tsf [31] !Do specified special functions.
R5706 0
MR5707 0 tsf_hBars = (tsf [32])<BAR__> !TRUE if change bars apply to the items described by TSF_xxx_HL.
R5708 0
MR5709 0 tsf_aux_aloc = tsf [33] !How TSF_AUX_SPAC is allocated.
R5710 0
MR5711 0 tsf_next_reg = tsf [34] !Indicates next free "pseudo-register."
R5712 0
MR5713 0 tsf_phregs = tsf [35] !Five "pseudo-registers".
R5714 0
R5715 0 LITERAL
R5716 0 tsf_nregs = 5; !Number of "pseudo-registers" available.
R5717 0
R5718 0 LITERAL
R5719 0 tsf_size = 40; !Total size of TSF.
R5720 0
R5721 0 MACRO
MR5722 0 tsf_bld = (TSF_NBITS)<BLD__>
R5723 0
R5724 0
MR5725 0 tsf_und = (TSF_NBITS)<UND__>
R5726 0
R5727 0
MR5728 0 tsf_ovr = (TSF_NBITS)<OVR__>
R5729 0
R5730 0
R5731 0 MACRO
MR5732 0 tsf_bars = (TSF_AUX_BITS)<BAR__> !True if change bars apply to the items described by TSF_xxx_VL.
R5733 0
R5734 0
R5735 0 MACRO
MR5736 0 tsf_definition =
R5737 0 REF VECTOR [tsf_size]%;
R5738 0
R5739 0 ! End of TSF.REQ

```

FLIPRECS -- FLIP/RUNOFF record formats  
TOCHL -- HL indicator record

H 13  
15-Sep-1984 23:07:40  
15-Sep-1984 22:50:43

VAX-11 Bliss-32 V4.0-742  
\_S255SDUAL8:[RUNOFF.SRC]DSRLIB.REQ;1

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: 5740 0 REQUIRE 'REQ:VR.REQ'; ! VR\_... & VR\*\_DEF for .VR and conditionals

Version: 'V04-000'

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FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS

ABSTRACT:  
Tables and definitions used for .VARIABLE, .IF, .IFNOT, .ELSE, and  
.ENDIF. The tables all contain space for an extra entry, so that various  
other pieces of code need not continually check to see if there is an  
entry in the tables.

ENVIRONMENT: Transportable BLISS

AUTHOR: Rich Friday

CREATION DATE: 1978

MODIFIED BY:

002 KAD00002 Keith Dawson 07-Mar-1983  
Global edit of all modules. Updated module names, idents,  
copyright dates. Changed require files to BLISS library.

LITERAL

vr\_table\_count = 5, !Number of tables that are vectors.

vr\_tab\_size = !Total BPVALs needed to save this information.  
!Space for tables that are vectors.  
(max\_vr\_names + 1) \* (vr\_table\_count)  
+

```

R5798 0      !Space for names.
R5799 0      (max_vr_names + 1) * CH$ALLOCATION (max_vr_length);
R5800 0
R5801 0      MACRO
MR5802 0      vrtrflg_def =
MR5803 0      VECTOR [max_vr_names + 1]      ! TRUE flag.
R5804 0      %,
R5805 0
MR5806 0      vrfflg_def =
MR5807 0      VECTOR [max_vr_names + 1]      ! FALSE flags.
R5808 0      %,
R5809 0
MR5810 0      vrbool_def =
MR5811 0      VECTOR [max_vr_names + 1]      ! TRUE/FALSE setting.
R5812 0      %,
R5813 0
MR5814 0      vrsrc_def =
MR5815 0      VECTOR [max_vr_names + 1]      ! How variable got defined.
R5816 0      %,
R5817 0      ! 0 means /VARIANT, 1 means .VARIABLE.
MR5818 0      vrlng_def =
MR5819 0      VECTOR [max_vr_names + 1]      ! Lengths of variable names.
R5820 0      %,
R5821 0
MR5822 0      vrname_def =
MR5823 0      BLOCKVECTOR [max_vr_names + 1
MR5824 0      ,ch$allocation (max_vr_length)]
R5825 0      %;
R5826 0
R5827 0      !
                                End of VR.REQ

```

FLIPRECS -- FLIP/RUNOFF record formats  
TOCHL -- HL indicator record

K 13  
15-Sep-1984 23:07:40  
15-Sep-1984 22:50:43

VAX-11 Bliss-32 V4.0-742  
\_\$255\$DUA28:[RUNOFF.SRC]DSRLIB.REQ;1 Page 201  
(2)

: 5828 0 !! REQUIRE 'REQ:XTNTAB.REQ'; ! In-core index table & entry definitions  
: 5829 0 ! End of DSRLIB.REQ

#### Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[SYSLIB]XPORT.L32;1	590	41	6	252	00:00.2
_\$255\$DUA28:[RUNOFF.SRC]RNODEFDSR.L32;1	6	1	16	5	00:00.1

#### COMMAND QUALIFIERS

: BLISS/LIBRARY=SRC\$:/LIST=LIS\$: SRC\$:DSRLIB.REQ

: Run Time: 01:17.4  
: Elapsed Time: 01:46.7  
: Lines/CPU Min: 4520  
: Lexemes/CPU-Min: 67306  
: Memory Used: 284 pages  
: Library Precompilation Complete

0339

AH-BT13A-SE  
VAX/VMS V4.0

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